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Brook Mine 2020 Bond

Prepared by: WWC Engineering

January 2020

DEQ Exhibit 7

TFNS 2/025 RECD JAN 27,2020



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RAMACO Brook Mine

A. Summary

The following summarizes the reclamation performance bond cost estimate for RAMACO's Brook Mine. This bond estimate was established in accordance with Wyoming Department of Environmental Quality/Land Quality Division (WDEQ/LQD) Guideline 12 and 12A and includes all activities necessary for complete reclamation of the Brook Mine after the first year of mine operation (year 1). This submittal includes all activities necessary for:

- Reclamation of all disturbed lands,
- Environmental monitoring,
- · Project management and miscellaneous costs, and
- · Labor and equipment overhead and contractor profit.

The submittal presented herein employs assumptions that are based on best professional judgment given the data currently available. The total bond estimate puts the costs to perform the required work by an independent contractor at \$1,358,637 during which the Brook Mine would be reclaimed to a condition agreed upon by WDEQ/LQD that would take the site to its approved postmining land uses.

B. Bond Calculation

A summary of the reclamation bond is provided in **Table 1**. Reclamation activities included in this summary include area bond, incremental bond and other miscellaneous items associated with surface coal mine bond estimates.

C. Area Bond

It is anticipated that at the end of year 1 of mining, topsoil, coal, and overburden removal will have occurred in the SM-1 area. In addition, topsoil removal of the staging area will have occurred. The area bond covers the costs of backfilling, rough grading, and final grading of the SM-1 mine area in accordance with the procedures established in the Reclamation Plan of the current permit. Topsoil removal, overburden removal, and coal removal is depicted on Mine Plan Exhibits MP.4-2, MP.4-3 and MP.4-1, respectively. The

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Bond 1

reclamation bond was calculated for the anticipated condition of mining in the end of year 1 of operations. **Exhibit 1** depicts the projected reclamation areas for the end of the year 1. Reclaimed fill and native overburden volumes were calculated using 3D grid files in AutoCAD. Details of the area bond calculations are provided in **Table 2**.

D. Incremental Bond

The incremental bond covers all costs beyond those detailed in the area bond. Costs included in the incremental bond are miscellaneous overburden redistribution, demolition, removal of monitoring structures, scarification of all compacted surfaces, topsoil redistribution, and revegetation.

Minor overburden redistribution will be required for the reclamation of SP-10 sediment pond. It is assumed the cost for reclamation of the sediment pond will include the reclamation of the associated collector ditches. **Table 3** displays the overburden redistribution calculations. Dozer and scrapers likely will be used to complete this reclamation activity.

Facility demolition/removal costs are expected for the coal storage pad for year 1 of the mining sequence. Demolition/removal costs for culverts or other associated mining structures are not expected. **Table 4** displays demolition costs associated with year 1 of mining.

The details for reclamation of groundwater monitoring, borehole sites and surface water monitoring sites are included in **Table 5**. The environmental monitoring and borehole sites are depicted on **Exhibit 2**.

The estimated acreage for scarification of planned disturbance through year 1 is included in **Table 6**. Scarification of compacted surfaces will likely be completed with a motor grader, in accordance with WDEQ Guideline 12.

The redistribution of topsoil will likely be completed with scrapers and/or a combination of trucks, loaders, and dozers. A topsoil depth of 18 inches was used as the replacement depth for estimating purposes based on the estimated

volume available from year 1 topsoil salvaging in Mine Plan Table MP.4-1. The volumes of topsoil redistribution are provided in **Table 7**. Topsoil redistribution is depicted in **Exhibit 1**.

The revegetation of all disturbed areas is detailed in **Table 8**.

Revegetation costs were based on WDEQ Guideline 12A. Once the mine is in operation a better value will be determined.

E. Miscellaneous Contingency Items

In accordance with the recommendations of WDEQ Guideline 12A, miscellaneous bond costs such as mobilization, de-mobilization, and profit will likely be higher for small, remote projects. The miscellaneous contingency items are depicted in **Table 9**.

F. Total Bond Estimate

The total estimated bond for the Brook Mine is depicted in **Table 1**. This total cost includes all direct and indirect costs in accordance with WDEQ Guideline 12 and 12A. **Exhibit 1** depicts the areas requiring reclamation for year 1 for the Brook Mine.

G. References

Wyoming Department of Environmental Quality/Land Quality Division
(WDEQ/LQD). (2019, December). Guideline Number 12: Standardized
Reclamation Performance Bond Format and Cost Calculation Methods.
Retrieved 2020, from
http://deq.wyoming.gov/media/attachments/Land%20Quality/Guidelines/Guideline_12A_Small_Mine_Bond_Calculations_(11_2019).pdf

Wyoming Department of Environmental Quality/Land Quality Division (WDEQ/LQD). (2019, December). Guideline Number 12A: Standardized Reclamation Performance Bond Calculation Methods for NonCoal Small Scale Mining Operations. Retrieved 2020, from http://deq.wyoming.gov/media/attachments/Land%20Quality/Guidelines/Guideline_12A_Small_Mine_Bond_Calculations_(11_2019).pdf

Brook Mine

Table 1. Reclamation Bond Summary through the end of Year 1.

Item	Cost
Area Bond	
Backfill	\$ 487,658
Rough Grading Backfill	\$ 1,046
Finish Grading	\$ 1,416
Area Bond Subtotal	\$ 490,121
Incremental Bond	
Overburden Redistribution	\$ 31,734
Demolition	\$ 240,146
Environmental Monitoring	\$ 42,830
Scarification	\$ 5,545
Topsoil	\$ 227,947
Revegetation	\$ 31,470
Incremental Bond Subtotal	\$ 579,672
Reclamation Bond Subtotal	\$ 1,069,793
Miscellaneous Contingency	\$ 288,844
Total Estimated Bond	\$ 1,358,637

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RAMA Broom Mine

Table 2. Area Bond Estimate

Description	Unit	Base Quantity	Swell Factor	Final Quantity	Unit	Subtotal	Comments
Backfill (Reclaimed Fill)	yd ³	519,648	116%	602,792	\$ 0.809	\$	WDEQ/LQD Guideline 12 (Dec 19), Appendix E, D9T Dozer, 400 ft. distance, level grade.
Rough Grading Backfill	ac			24.6	\$ 42.52	\$	WDEQ/LQD Guideline 12 (Dec 19), Appendix M, 854G Rubber Tire Dozer
Final Grading	ac			24.6	\$ 57.57	\$	WDEQ/LQD Guideline 12 (Dec 19), Appendix G, 16M Motor Grader

Total Area Bond Estimate \$ 490,120.68

RAMA

Br Mine

Table 3. Overburden Redistribution Estimate

Description	Unit	Base Quantity	Swell Factor	Final Quantity	Unit Cost		Subtotal	Comments
				S	ediment P	onds		
								WDEQ/LQD Guideline 12 (Dec 19), Appendix E, D9T
Sediment Pond SP-10	yd ³	39,226	100%	39,226	\$ 0.809	\$	31,733.83	Dozer, 400 ft. distance, level grade.

Total Overburden Redistribution Estimate \$ 31,733.83

Table 4. Demolition Estimate

Description	Unit	Final Quantity	U	nit Cost	S	ubtotal	Comments
Fences	If	NA	\$	0.30			WDEQ/LQD Guideline 12 (Dec 19), Appendix H.
Powerlines	If	NA	\$			-	
Hard-surfaced roads	ac	NA	\$	663.14		/4	WDEQ/LQD Guideline 12 (Dec 19), Appendix I, D97 Dozer.
Bridges	ea	NA	\$				
Abandoned Equipment	ea	NA	\$			4	
Railroad	If	NA	\$	8.79		- X-	WDEQ/LQD Guideline 12 (Dec 19), Appendix K.
Facility Buildings - Demolition	ft ²	262,667	\$	0.76	\$	199,626.77	WDEQ/LQD Guideline 12 (Dec 19), Appendix K.
Facility Buildings - Removal	yd ³	4,864	\$	8.33	\$	40,518.79	WDEQ/LQD Guideline 12 (Dec 19), Appendix K.
Mineral Handling Facilities	-,-	NA	\$			•	
				Culver	ts ¹		
Culverts ¹	If	NA	\$	5.60			WDEQ/LQD Guideline 12 (Dec 19), Appendix J.

Total Demolition Estimate \$ 240,145.55

Note: NA: Not Available

*Unit cost based on 48 inch diameter culvert.

RAMACO Brook Mine

Table 5. Environmental Monitoring Reclamation Costs

	Groundwater Mon	itoring	and B	orenoie	Sites		
Location ID	Depth (ft)	Un	it Cost	Incide	ental Costs ³	S	ubtotal
578510-CRN	91	\$	3.00	\$	200.00	\$	473.00
578510-MST	146	\$	3.00	\$	200.00	\$	638.00
578511-CRN	128	\$	3.00	\$	200.00	\$	584.00
578511-MST	157	\$	3.00	\$	200.00	\$	671.00
578512-CRN	62	\$	3.00	\$	200.00	\$	386.00
578512-MST	115	\$	3.00	\$	200.00	\$	545.00
578512-AL	22	\$	3.00	\$	200.00	\$	266.00
578513-CRN	116	\$	3.00	\$	200.00	\$	548.00
578513-MST	142	\$	3.00	\$	200.00	\$	626.00
578513-AL	22	\$	3.00	\$	200.00	\$	266.00
578513-OVB-1	75	\$	3.00	\$	200.00	\$	425.00
578408-CRN	98	\$	3.00	\$	200.00	\$	494.00
578408-MST	118	\$	3.00	\$	200.00	\$	554.00
578417-CRN	141	\$	3.00	\$	200.00	\$	623.00
578417-MST	163	\$	3.00	\$	200.00	\$	689.00
578418-CRN	153	\$	3.00	\$	200.00	\$	659.00
578418-MST	183	\$	3.00	\$	200.00	\$	749.00
578418-AL	27	\$	3.00	\$	200.00	\$	281.00
578409-CRN	109	\$	3.00	\$	200.00	\$	527.00
578409-CRN-OB	110	\$	3.00	\$	200.00	\$	530.00
578409-MST	122	\$	3.00	\$	200.00	\$	566.00
578409-MST-OB	122	\$	3.00	\$	200.00	\$	566.00
578409-MST-UB	142	\$	3.00	\$	200.00	\$	626.00
578415-SPL-1	62	\$	3.00	\$	200.00	\$	386.00
578415-SPL-2	120	\$	3.00	\$	200.00	\$	560.00
578415-CRN-MST	182	\$	3.00	\$	200.00	\$	746.00
578421-3-MAS	135	\$	3.00	\$	200.00	\$	605.00
Ambre 02	120	\$	2.00	\$	70.00	\$	310.00
Ambre 03	96	\$	2.00	\$	70.00	\$	262.00
	120	\$	3.00	\$	70.00	\$	
Ambre 04 R-12001	121	\$	2.00	\$	70.00	\$	430.00 312.00
R-12001	162	\$	2.00	\$	70.00	\$	394.00
R-12002 R-12003	142	\$	2.00	\$	70.00	\$	354.00
	240		3.00	\$	70.00	\$	790.00
R-12004	240	\$	2.00	_	70.00		
R-12005		\$		\$		\$	550.00
R-12006	300	\$	3.00	\$	70.00		970.00
R-12007	39	\$	2.00	\$	70.00	\$	148.00
R-12008	201	\$	3.00	\$	70.00	\$	673.00
R-12009A	65	\$	3.00	\$	70.00	\$	265.00
R-12010	120	\$	2.00	\$	70.00	\$	310.00
R-12011	92	\$	3.00	\$	70.00	\$	346.00
R-12012	136	\$	3.00	\$	70.00	\$	478.00
R-12013	300	\$	2.00	\$	70.00	\$	670.00
R-12014	220	\$	2.00	\$	70.00	\$	510.00
R-12015	221	\$	3.00	\$	70.00	\$	733.00
R-12018D	142	\$	2.00	\$	70.00	\$	354.00

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February 2020

Monitoring 1

Table 5. Environmental Monitoring Reclamation Costs (Cont).

	Groundwater Mon	itoring	and B	orehole	Sites ¹	
Location ID	Depth (ft)	Uni	it Cost	Incide	ntal Costs ³	Subtotal
R-12019D	140	\$	2.00	\$	70.00	\$ 350.00
R-12020	494	\$	2.00	\$	70.00	\$ 1,058.00
R-13-011	222	\$	2.00	\$	70.00	\$ 514.00
R-13-012	202	\$	3.00	\$	70.00	\$ 676.00
R-13-016	904	\$	2.00	\$	70.00	\$ 1,878.00
R-13-018	141	\$	2.00	\$	70.00	\$ 352.00
R-13-019	210	\$	2.00	\$	70.00	\$ 490.00
R-13-020	302	\$	3.00	\$	70.00	\$ 976.00
R-13-023	202	\$	2.00	\$	70.00	\$ 474.00
R-13-024	983	\$	3.00	\$	70.00	\$ 3,019.00
	Groundwater Mon	itoring	and Bo	rehole S	ites Subtotal	\$ 33,235.00
	Mobilization	\$ 1,000.00				
	e Sites Total	\$ 34,235.00				
	Surface Wa	ter Mo	nitoring	g Sites ²		
SM578418-SW-1						\$ 2,148.80
SM578512-SW-1						\$ 2,148.80
SM578409-SW-1						\$ 2,148.80
SM578415-SW-1						\$ 2,148.80
	Su	rface \	Water N	Ionitorin	g Sites Total	\$ 8,595.20

Total Environmental Monitoring Reclamation Estimate \$ 42,830.20

Notes: 1 Bond estimate based on WDEQ Appendix L of Guideline 12.

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² Bond estimate based on WDEQ Appendix N of Guideline 12.

³ Incidental costs consist of: small site grading and seeding, capping, location fee, casing removal (monitor wells), and concrete pedestal disposal (monitor wells).

RAMA Brook Mine

Table 6. Scarification Estimate

Description	Unit	Final Quantity	Unit Cost	Subtotal	Comments
Currently affected area	ac	0	\$ 52.86	\$	WDEQ/LQD Guideline 12 (Dec 19), Appendix P.
Planned disturbance through Year 1	ac	104.9	\$ 52.86	\$ 5,545.01	WDEQ/LQD Guideline 12 (Dec 19), Appendix P.

Total Scarification Estimate \$

5,545.01



Table 7. Topsoil Estimate

Description	Unit	Base Quantity	Unit	Final Quantity ¹	Unit Cost		Subtotal	Comments
FAC	ac	72.9	yd ³	177,500	\$ 0.977	\$	173,417.50	WDEQ/LQD Guideline 12 (Dec 19), Appendix C 637G Scraper, 2,000 ft. approximate distance, level grade.
SM-1 HR	ac	1.8	yd ³	4,400	\$ 0.759	\$	3,339.60	WDEQ/LQD Guideline 12 (Dec 19), Appendix C 637G Scraper, 1,000 ft. approximate distance, level grade.
Rec Block-1	ac	7.1	yd ³	17,300	\$ 0.759	\$	13,130.70	WDEQ/LQD Guideline 12 (Dec 19), Appendix C 637G Scraper, 1,000 ft. approximate distance, level grade.
Rec Block-2	ac	9.4	yd ³	22,700	\$ 0.871	\$	19,771.70	WDEQ/LQD Guideline 12 (Dec 19), Appendix 0 637G Scraper, 1,500 ft. approximate distance, level grade.
Rec Block-3	ac	6.4	yd ³	15,500	\$ 0.871	\$		WDEQ/LQD Guideline 12 (Dec 19), Appendix 0 637G Scraper, 1,500 ft. approximate distance, level grade.
				Sec	diment Pon	ds		
SP-10	ac	2.0	yd ³	4,900	\$ 0.977	s	4.787.30	WDEQ/LQD Guideline 12 (Dec 19), Appendix 0 637G Scraper, 2,000 ft. approximate distance, level grade.

Total Topsoil Estimate \$ 227,947.30

Note ¹ Topsoil replacement depth based on the estimated volume available from year 1 topsoil salvaging in Mine Plan Table MP.4-1.

RAMA

Brown Mine

Table 8. Revegetation Estimate

Description	Unit	Final Quantity	Unit Cost	Subtotal	Comments
Planned disturbance through Year 1	ac	104.9	\$ 300.00	\$ 31,470.00	WDEQ/LQD Guideline 12A (Dec 19), II(i) Seeding Costs

Total Revegetation Estimate \$ 31,470.00

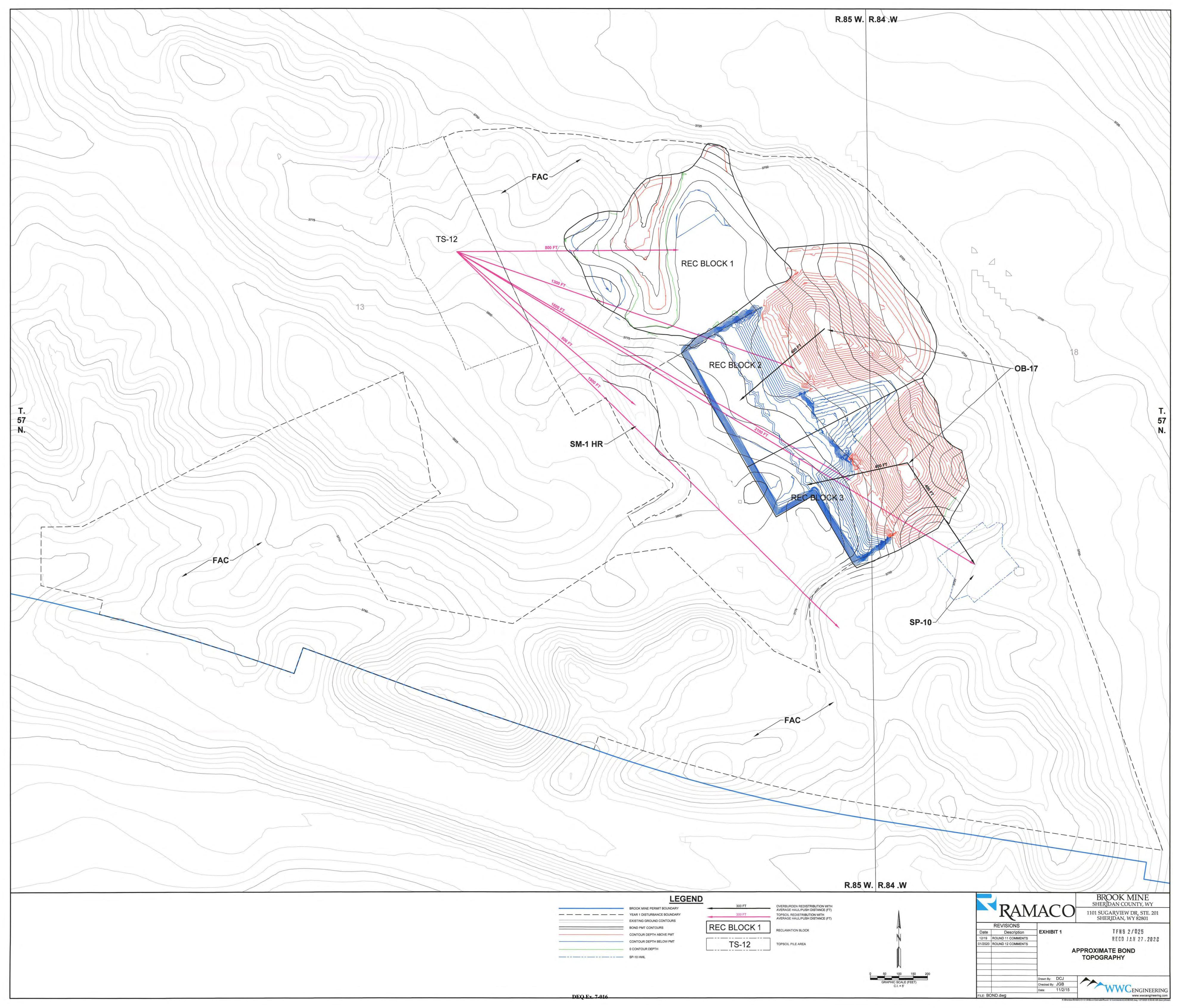
Brook Mine

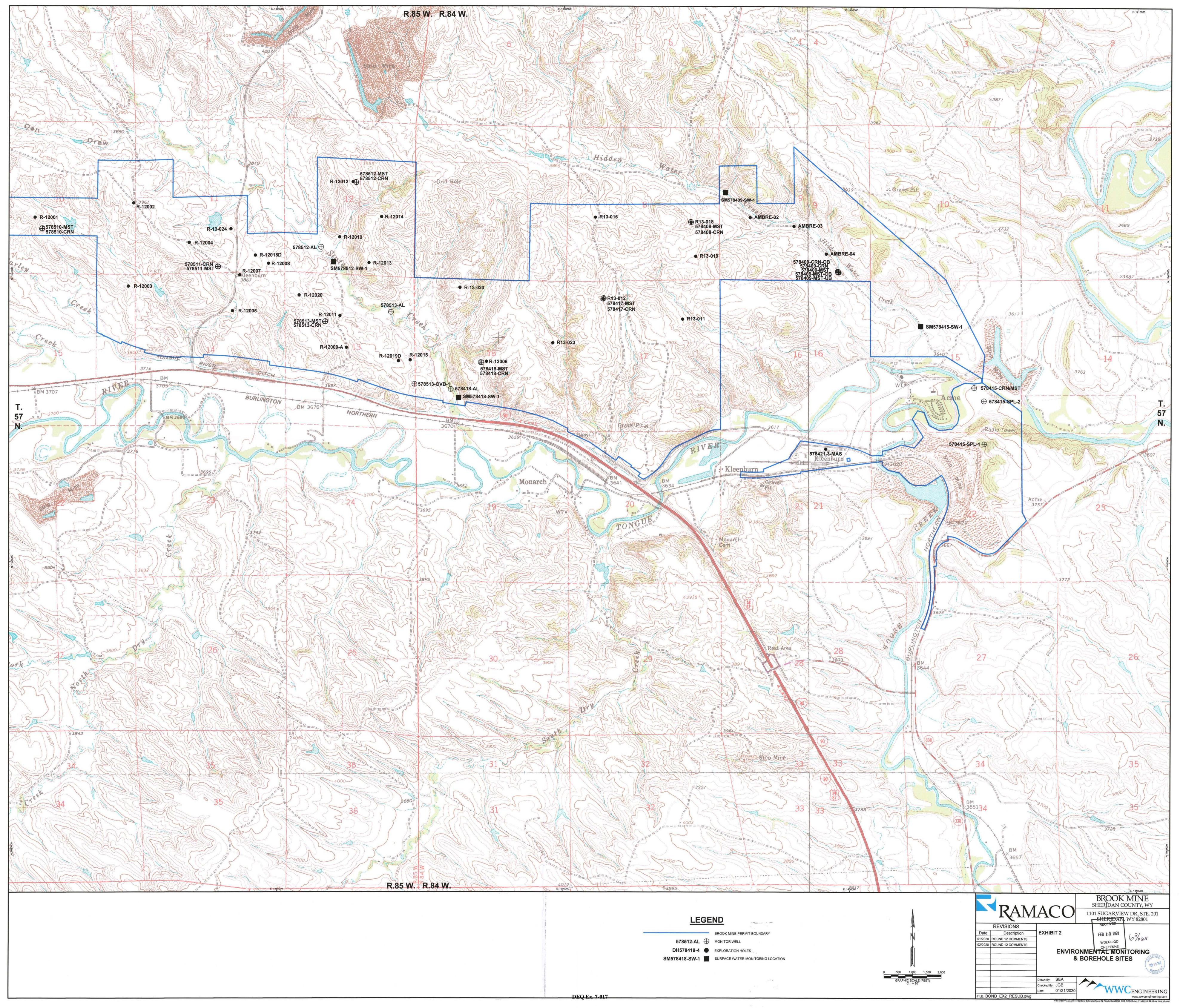
Table 9. Miscellaneous Contingency Items

Item		Cost	Description		
Contingency Fees for Site Cost Reclamation Estimate ≥ \$500,000 (25 Percent)	\$		WDEQ/LQD Guideline 12A (Dec 19), V. Contingency Fees		
On site monitoring program for ten years after completion of final reclamation project (2 Percent)	\$		WDEQ/LQD Guideline 12 (Dec 19), II(b)(12)(e) Miscellaneous Items		

Total Contingency Estimate \$ 288,844.00







(b)

NOTE: DO NOT MODIFICATION FORM. Use typewriter or print neatly in blue ink. Submit two (2) copies one of which must be an original Form 1 as supplied by the Department of Environmental Quality, Land Quality Division.

STATE OF WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY LAND QUALITY DIVISION APPLICATION FOR

PERMIT TO MINE

OR

AMENDMENT TO A PERMIT TO MINE

OR COAL PERMIT RENEWAL

1.	(a)	Name,	telephone	number,	and	mailing	address	of	applicant:	
		Brook Mini	ng Co., LLC 1101	L Sugarview I	Drive,	Suite 201, S	heridan, WY	828	01 - (307) 674-8000, FAX (866) 519-5232	

Name:_	Randall W. Atkins	Address: 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801			
Title:	Manager, Chairman, Chief Executive Officer	Phone No. (307) 674-8000			
Name:_	Michael D. Bauersachs	Address: 250 West Main Street, Suite 201, Lexington, KY 40			
Title:	Manager, President, Secretary	Phone No(859) 244-7455			
Name:_		Address:			
Title:		Phone No			
Name:_		Address:			
Title:		Phone No.			

If the applicant is a partnership, association or corporation, (circle one) the names and addresses of all managers, partners and executives directly responsible for

- Name, address, and telephone number of the agent or person to whom any notice under the provisions of Wyoming Environmental Quality Act or Rules and Regulations adopted thereunder may be sent: Randall W. Atkins 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801 (307) 674-8000
- Attach the following information as part of the specific appendices:
 - APPENDIX "A" (a)

Names and addresses of surface and mineral owners of record within the proposed permit (amendment) area.

- (b) APPENDIX "B"
 - (i) Names and last known addresses of the owners of record of the surface rights of the lands immediately adjacent to the proposed permit (amendment) area.
 - (ii) Names and last known addresses of any other persons within one-half (1/2) mile having a valid legal estate of record.
 - For surface coal mining operations, the names and last known addresses of coal ownership immediately adjacent to the proposed permit (amendment) area. (iii)

Nomm:

Appendices "A" and "B" shall each be accompanied by maps showing the ownership locations required by the respective appendices. Mapping of (b)(ii) is not required.

- APPENDIX "C" (c)
 - All lands to be included in the proposed permit (amendment) area shall be tabulated by legal subdivision, section, township, range, county, and municipal corporation, if any, and the number of acres for each subdivision (i)
 - Lands which are to be part of the proposed permit (amendment) area, for which no right to mine is claimed shall be identified in item (c)(i) above as such and tabulated separately listing the number of acres for each legal subdivision. (ii)
 - Lands which are located within other permit areas shall be identified and a copy of the land use agreement with the other permittee shall be attached as part of this application. (iii)
 - (iv) An original United State Geological Survey topographic map, clearly outlining and identifying the lands to be within the proposed permit areas, shall be provided. Photo copies or other similar copies are not acceptable unless prior approval is obtained from the Land Quality Division.

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Initial Rust

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(d) APPENDIX "D"

A description of the land which shall include: historic and present land use; vegetative cover; annual rainfall; general directions and average velocities of the winds; indigenous wildlife; present surface water and the immediate drainage areas; valid water rights; nature and depth of the overburden, subsoil, topsoil; including a soils map; mineral seams, or other deposits; subsurface water(s) known to exist above the deepest projected depth of the mining operation.

(e) APPENDIX "E"

A map or maps with the boundary of the proposed permit (amendment) are clearly outlined and identified showing:

- (i) The lands to be affected by the mining;
- (ii) The drainage area within and surrounding the proposed permit (amendment) area;
- (iii) The location and names, where known, of all roads, railroads, public or private rights-of-way and easements, utility lines, lakes, streams, creeks, springs, and other surface water courses, oil wells, gas wells, and water wells;
- (iv) An outline of the probable limits of all areas previously disturbed or to be disturbed by underground or subsurface mining, whether active or inactive, on or immediately adjacent to the proposed permit (amendment) area;
- (v) The names, last known addresses and boundary lines of the present surface landowners and occupants on the adjacent land to be affected;
- (vi) The location, ownership, and uses of all buildings on, or on lands adjacent to, the land to be affected;
 - (vii) Information presented as part of APPENDIX "D" when necessary for clarification.

4.	Mineral(s) to	be	mined:	Coal	
	Mining method				

- 5. Estimated dates of commencement and termination of the proposed operation: Start: 2020 Terminate: 2062
- 6. The total number of acres in the proposed permit (amendment) area and an estimate of the total number of acres to be affected by the operation:

Approved Acreage to Affect

Original Permit______ Original Permit_____ No. of Federal Acres_______
Approved Amendments_____ Approved Amendments____ No. of State Acres______
This Application__4,548.8 Total Acres______1,135.1 Total Acres__4,548.8

Total Acres__4,548.8 Total Acres__1,135.1 Total Acres__4,548.8

7. The name, if any, by which the permit (amendment) lands or any part thereof are known:

Brook Mine

8. The nearest town or city: Ranchester, WY

Permit Acres

- 9. A filing fee of \$100.00 (\$200.00 for amendments) plus \$10.00 for each acre in the request permit (amendment) area. For any single permit (amendment) the maximum fee shall not exceed \$2,000.00.
- 10. Plan or plans of the applicant, including maps for the proposed mining operation and the reclamation of all affected lands as required by W.S. §35-11-406(b) and Chapter 2, Sec. 2 of the Land Quality Rules and Regulations.
- 11. Each application for coal mining operations shall also contain:
 - (a) Additional information as required in Chapter 2, Section 2 of the Land Quality Division Coal Rules and Regulations;
 - (b) A certification that the applicant has a public liability insurance policy in force for the proposed mining and reclamation, as required by W.S. §35-11-406(a)(xiii) and Land Quality Division Coal Rules and Regulations Chapter 12, Section 2.;
 - (c) A listing of all notices of violations required by W.S. §35-11-406(a)(xiv).
- 12. The following obligations are incumbent upon the applicant upon approval of this application:
 - (a) The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit, to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.
 - (b) The operator shall allow the Director, the Administrator and/or his authorized representatives, at reasonable times and upon presentation of appropriate credentials, to enter upon and have access to any and all lands covered by this permit and amendments thereto and to inspect and copy any records or documents, obtain or monitor any samples or sampling, for any activities associated with the operation and permit.
 - (c) The following shall also apply for coal mining operations:
 - (i) The operator shall conduct his operation in a manner which prevents violation of any other applicable State or Federal law. TFN6 2/025

RECD DEC 13, 2019

Surface Ownership

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Initial Ruff

DaDEQEX. 7-019

Scanned, The operator all take all possible steps to imize any adverse impact to the environment public health and safety resu ig from noncompliance with his approved mining and reclamation plan and other terms and conditions of any permit or license, including monitoring to define the nature of the noncompliance and warning of any potentially dangerous condition. (iii) The operator shall conduct all operations in accordance with his approved mining and reclamation plan and with any special conditions of the permit or license 02/26/202 attached thereto. (iv) All reclamation fees shall be paid as required by Title IV, P.L. 95-87, for coal produced under the permit for sale, transfer or use. FINAL SWORN STATEMENT Wyoming ate of Sheridan County of __ I Randall W. Atkins _ being duly sworn on my oath that I am the applicant (President or Vice President if the applicant is a corporation) for the foregoing permit (amendment); that I have read the said application and fully know the contents thereof; that all statements contained in the permit (amendment) application are true and correct to my best knowledge and belief; by execution of this statement I certify that Brook Mining Co., LLC applicant or entities controlled by or under common control with the applicant has the right and power by the legal estate owned to mine from the land for which this permit (amendment) is desired; that applicant or entities controlled by or under common control with the applicant has not forfeited, or is not involved in forfeiture proceedings for, a bond posted for reclamation purposes; and if a surface coal mining application, that applicant or entities controlled by or under common control with the applicant has paid the reclamation fees for this and all coal mining o ations under the jurisdiction of P.L. 95-87 as required by Title IV of that law; and that icant or entities controlled by or under common control with the applicant has not had any Federal or State coal mining permits suspended or revoked in the five years preceding the date of this application. 19th day of November Dated this _ (Corporate Seal) Name _ Randall W. Atkins (Printed or typed) Manager, Chairman, Chief Executive Officer The foregoing instrument was acknowledged before me by this 19th day of November , 2019. (ala Witness my hand and official seal. if a Corporation) Larla J. Ash (Name printed or typed)

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(Notary Seal)

CARLA J. ASH - NOTARY PUBLIC

DaDEQ Ex/7-020

Permit No .. Temporary Filing No. 62/025

12.11.2021

RECD DEG 13,2019

My Commission Expires: ____

דעד פדאדה	OF WYOMING)		
)ss		
DEPARTMEN	T OF ENVIRONMENTAL QUALITY)		
is t	o certify that I have examined the fo the following limitations and condi	oregoing ap	oplication and do hereby grant the sa
his perm: C" of the	it/coal renewal/amendment grants only e application.	the right t	to affect the land described in Append
tandard pecial co	conditions specified in Item No. 12.	of this agermit/coal	obligates the operator to abide by the opplication form. Any condition and/orenewal/amendment shall supersede and/os, coal renewals or any other revision
dditiona	l special conditions and limitations	are as foll	ows:
, i			
-			
pproved:_		Approved:	
	Administrator Land Quality Division Department of Environmental Quality		Director Department of Environmental Quality
	TFN6 2/025	Effective	Date:
	RECD DEC 13.2019	Errective	Date:
orm 1			Permit No
ev. 6/00	DEO	Ex. 7-021	Temporary Filing No. 62/025

CONSENT FOR ACCESSING PRIVATE PROPERTY

I. Randall W. Atkins, Chairman and Chief Executive Officer, am the owner or agent of Brook Mining Company, LLC ("Lessee") of RAMACO Wyoming Coal Co. ("Lessor"), and authorize Wyoming Department of Environmental Quality employee's BJ Kristiansen, P.G., Dave Myers, Kim Medina, Muthu Kuchanur, Matt Kunze to access the lands described in the 1954 deed (see attachment A) Laya MOA (see attachment B), Taylor MOA (see attachment C) for the time period of August 11, 2015 to December 31, 2015 and for the purpose of Conducting the usual business of WDEO/LOD pursuant to RAMACO Wyoming Coal Companies permit to mine application AVF determination.

Signature: Karlell V. attic Date: 411/15

Attachment A

WARRANTY DEED

THIS DIDENTURE, made the 28th day of June, 1954, by and between the SHERIDAN-WYCMING COAL COMPANY, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business in the County of Sheridan, State of Wyoming, the GHANTOR, and BIG HORN COAL COMPANY, of the County of Sheridan, State of Wyoming, the GRANTEE, WITNESSETH!

That the grantor, for and in consideration of the sum of One Dollar and other good and valuable consideration, in hand paid, the receipt whereof is hereby acknowledged, does, by these presents, grant, bargain, sell, CONVEY AND WARRANT unto the said grantee, all of the surface rights in the following, in the County of Sheridan, State of Wyomings

Township 57 North, Range Bl: West, 6th Principal Meridian

Sec. 3 SWISET, SISWI

Sec. 7 ESSET

Sec. 8 St

NET, SWINWI, SE

Sec. 10 NEt, Swi, Undivided one-half interest in Mwi NETHER, WINET, NWI, WISEI, KISEI south of Tongue River, the SW excepting therefrom (1) the Acme townsite sold to Gothard Bylund in certain Agreement for Warranty Deed and Bill of Sale dated July 15, 1953, and (ii) certain tracts of land deeded to Montana-Dakota Utilities Company, described as follows: Beginning at a point 50 feet north 260 54: 30" west of a point which is 1984.5 feet north 31° 23° east from the southwest corner; thence south 690 61 west 541 30" West 100.51 feet; thence north 26 420.82 feet; thence north 240 54 east 127.24 feet; thence south 86 14 west 509.5 feet; thence south 26° 55' east 363,2 feet; thence south 69° 6' west 477.5 feet to the point of beginning.

Soc. 14 That part of SW15W1 south of Tongua River

ATT Sec. 17

Sec. 18 Eż

Sec. 19 NEINEZ, All of SEINEL except the SWI thereof sold to William Long, also all that portion of NWINE' lying east of Tongus River NWI, NWISWI, All NET north of C. B. & Q. Rail-

Sec. 20

road Company right-of-way

/ Sec. 21 All except tracts and lots of Model Townsite owned by parties of record, and except that portion of SWANNA lying between the North line of the C. B. & Q. Railroad right-of-way and the North line of said Swinwi, consisting of 4 acres, more or less, as conveyed to Bruno Romeo.

Sec. 22 All

Sec. 27 N2S2, and the N2, except a tract of land described as follows: Beginning 535.5 feet north 59° 30' east from the West Quarter corner of said Sec. 27; thence north 150 12 east 200 feet; thence south 73° 48' east 200 feet; thence south 16° 12' west 200 feet; thence north 73° 48' west 200 feet to the point of beginning.

Sec. 28 NET, MESET



Township 57 North, Run & 85 West, 6th Principal Meridian

A certain tract of Land 'n Sections Un and 23 as described in Warranty Doed dated January 26, 1916 from George Masters to Peter Kooi, recorded in Book Z of Deeds, Page 201, County Clerk's Office

Together with all such surface water and disch rights as Grantor may have in the foregoing;

but subject as to all of the foregoing to all existing grazing and other surface leases made by Grantor as Leasor, and the right of all tenants and leases to remove buildings and other improvements placed on said leased premises by them;

And ambject further, to one-half of the taxes for 195h and all taxes for subsequent years;

And subject further, to all existing rights-of-way and elsements in favor of third persons over and across the above described lands, including without limitation all street; and highways, County, State and Paleral, and telephone and electric power transmission lines;

The fruntor reserving unto itself, its successors and assigns all gas, oil, coal and ther minerals contained in all o' the above described Lambs, together with the right to mine, explore, drill, extract and remove the same, and including the right to use so much of the surface of said lands as may be necessary or convenient in order to enable the Grantor, its successors and assigns to mine, explore, drill, extract and remove said oil, gas, coal and other minerals. And in the event that the Chantor, its successors or assigns, shall hereafter mine, drill, explore, extract and remove gas, oil, coal or other minerals and shall utilize any part of the surface of said lands in connection therewith, they shall be free from any liability or claim for damage to the surface of said lands that might 'a asserted by the Grantee, it: successors and assigns, on account of subsidence or other injury to the surface of said lands resulting from such operations, except that in case of any such injury Grantor will pay such actual damage as the parties shall agree has been so caused to any said lands, or in default of such agreement, as shall be determined by arbitration to have been so caused; provided however, that in no event shall Grantor, its successors or assigns, be obliged to pay for such darage more than Ten Dollars (\$10,00) per acre for any of said lancs damaged which are dry grazing lands, Fifty Dollars (\$50,00) per acre for any said Lands damaged which are bottom lands, and Two Hundred Follars (\$200.00) per acre for any of said lands d'maged which are irrigated lands.

"WHINESS MALICOF, the Grantor has raused its corporate seal to be hereunte affixed, and these presents to be signed by its duly authorized officer, the day and year first above written.

(SEAL)

SHERIDAN-WYOMING COAL COTEANY, Inc.

Ry 1

Danidont

Assastant Secretary

THE STATE OF WYOMONO)
SS
COUNTY OF SHEELDAN)

On this 28th day of June, 195h, before me personally appeared Walter J. Johnson to me personally known, who, being by me duly swore did say that he is the President of SHERDAN-WYOMING COAL COMPANY, Isc., and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Directors and said Walter J. Johnson acknowledged said instrument to be the free act and deed of said corporation.

My commission expires April 28th, 1956. Given under my hand and notarial seal this 28th day of June, 1954.

Motary Public

Attachment B

14 12:57 PM PAGE: 1

BOOK: 545 PAGE: 161 FEES: \$24.00 PK MEMORANDUM OF AGR EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

STATE OF WYOMING COUNTY OF SHERIDAN

MEMORANDUM OF AGREEMENT

NOTICE IS HEREBY GIVEN that under a certain Coal Mining Lease Agreement ("Agreement") made effective on January 7 2014, by and between William J. Laya and Joyce J. Laya, Trustees of the William J. Laya Trust under Trust Agreement dated November 19, 1993, and Joyce J. Laya and William J. Laya, Trustees of the Joyce J. Laya Trust under Trust Agreement dated November 19, 1993 and Thomas C. Laya ("Owner"), whose address is 91 Kooi Road, Ranchester, WY 82839, and Ramaco Wyoming Coal Co., LLC ("Operator"), whose address is 250 West Main Street, Suite 210, Lexington, KY 40507, Owner has granted Operator exclusive right and privilege to mine, extract, and remove all of the coal deposits, and other minerals comingled therewith, in and under certain lands in Sheridan County, Wyoming, as more particularly described on the attached Exhibit "A," which is incorporated by this reference. The term of the Agreement is for a period of twenty (20) years and from year to year thereafter until all mineable and merchantable coal has been exhausted.

This Memorandum is executed for the purpose of providing notice of the existence of the Coal Mining Lease Agreement between Owner and Operator and certain of the terms and provisions thereof. All of the terms and provisions of the Agreement are incorporated herein by reference for all purposes. This Memorandum is not intended to alter or vary the terms of the Agreement. Copies of the Agreement are on file with the signatories to this Memorandum.

DATED this le day of November 2012.

OWNER:

William J. Laya Trust under Trust Agreement dated November 19, 1993

William J. Kaya Trustee

Joyce J. Laya Trust under Trust Agreement dated November 19, 1993

Thomas C. Laya

OPERATOR:

Thomas C. Laya

Ramaco Wyoming Coal Co., LLC

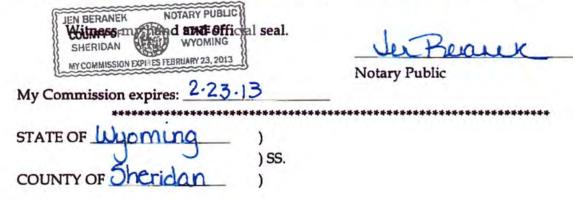
Randall W. Atkins

Chief Executive Officer

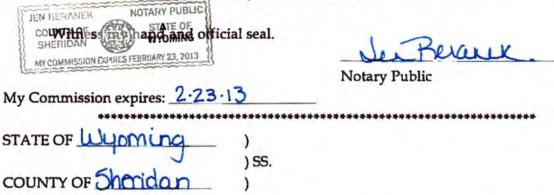
K: 545 PAGE: 162 FEES: \$24.00 PK MEMORANDUM OF AGR SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

STATE OF Wyomung)) SS. COUNTY OF Theridan

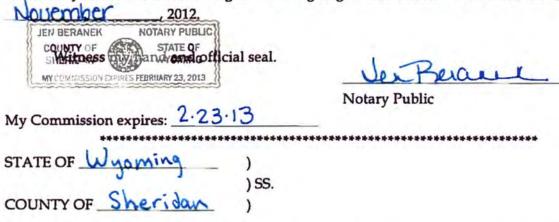
William J. Laya, Trustee of the William J. Laya Trust under Agreement dated November 19, 1993 and the Joyce J. Laya Trust under Agreement dated November 19, 1993 whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this Le day of November



Joyce J. Laya, Trustee of the William J. Laya Trust under Agreement dated November 19, 1993 and the Joyce J. Laya Trust under Agreement dated November 19, 1993 whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this le day of November 2012.



Thomas C. Laya whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this 14 day of



Randall W. Atkins, Chief Executive Office of Ramaco Wyoming Coal Co., LLC, whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this 9th day of November

Witness my hand and official seal.

Notary Public

My Commission expires: 12/18/2015

2014-709925 1/10/2014 12:57 PM PAGE: 3 OF 5 BOOK: 545 PAGE: 163 FEES: \$24.00 PK MEMORANDUM OF AGR EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

Exhibit "A" to Coal Mining Lease Agreement

Township 57 North, Range 85 West, 6th P.M., Sheridan County, Wyoming

Section 10: SE¼NE¼, N½S½, SE¼SE¼ Section 11: W½SE¼, SW¼, SW¼NW¼

Section 14:

W1/2NE1/4, NW1/4, and that part of the S1/2 described as commencing at the half section corner between Section 14 and 15, in Township 57 North, Range 85 West, 6th P.M., being the NW corner of the NW1/4SW1/4 of said Section 14 as the point of beginning; thence south along the section line 1,000 feet, more or less, to the north line of the right-of-way of the Grand Island & Northern Wyoming Railroad Company; thence running in a southeasterly direction along the north line of the said right-of-way to a point on the east section line of said Section 14, which said point is 408 feet, more or less, south of the NE corner of the SE1/4SE1/4 of said Section 14; thence running north along said section line to a point, which said point is 27 feet north of the northeast corner of the SE1/4SE1/4 of said Section 14; thence running in a northwesterly direction 1,336 feet to a point on the north and south dividing line between the $E^{1/2}$ of the $E\frac{1}{2}$ of said Section 14, which point is 435 feet north of the line of the said right-of-way and 1,115 feet south of the northwest corner of the NE¹/₄SE¹/₄ of said Section 14; from said last named point running thence north along said division line 1,115 feet to the said northwest corner of the said NE1/4SE1/4 of said Section 14; thence running west to the point of beginning.

Section 15: E1/2NE1/4

Excepting, therefrom two (2) parcels conveyed to The State Highway Commission of Wyoming in Book 291 of Deeds at page 545, and more particularly described as follows:

Parcel 1 - All that portion of the SE¼NE¼ of Section 15, T57N, R85W, of the 6th P.M., Wyoming lying south of a parallel right-of-way line of hereinafter stated distances to the right or northerly side when measured at right angles or radially to the following described survey line of highway, said parallel right-of-way line begins on the east boundary and ends on the west boundary of said SE¼NE¼:

Beginning at a point on the east boundary of said Section 15 from which the east quarter corner thereof bears N 0 degrees 28' 05.6" W a distance of 149.81 feet, said point of beginning also being located on a 1 degree 00' circular curve concave to the north, the radius of which is 5,729.58 feet and at which point a line tangent to said curve bears N 72 degrees 30' 36.7" W;

thence with said parallel right-of-way lines 275 feet to the right or northerly side along said curve through a central angle of 5 degrees 43' 32.4" a distance of 572.57 feet;

thence with said parallel right-of-way line 200 feet to the right or northerly side continuing along said curve through a central angle of 2 degrees 22' 02.6" a distance of 236.74 feet to the point of ending of said curve;

thence continuing with said parallel right-of-way line 200 feet to the right or northerly side, N 64 degrees 25' 01.6" W a distance of

720 feet, more or less, until said parallel right-of-way line intersects said west boundary.

Parcel 2 -All those portions of the SW1/4NW1/4 of Section 14, T57N, R85W of the 6th P.M. and of a tract of land lying in the S1/2 of said Section 14 as described in Book 54 at page 569 of the Sheridan County Records, lying between the southerly right-of-way boundary as described in Book 102 at page 72 of the Sheridan County Records and a parallel right-of-way line of hereinafter stated distances to the left or northerly side when measured at right angles or radially to the following described survey line of highway, said parallel rightof-way line begins on the west boundary of said Section 14 and ends on the east boundary of the NW\4SE\4 of said Section 14:

> Commencing at a point on the west boundary of said Section 14 from which the west quarter corner thereof bears N 0 degrees 28' 05.6" W a distance of 149.81 feet;

> thence N 72 degrees 02' 27.0" W a distance of 93.87 feet to the True Point of Beginning. Said True Point of Beginning also being located on a 1 degree 00' circular curve concave to the north, the radius of which is 5,729.58 feet and at which point a line tangent to said curve bears S 71 degrees 34' 17.4" E;

> thence with said parallel right-of-way line 275 feet to the left or northerly side, southeasterly along said curve through a central angle of 4 degrees 12' 46.9" a distance of 421.30 feet;

> thence with said parallel right-of-way line 175 feet to the left or northerly side continuing southeasterly along said curve through a central angle of 12 degrees 04' 09.8" a distance of 1,206.94 feet to the point of ending of said curve;

> thence continuing with said parallel right-of-way line 175 feet to the left or northerly side, S 87 degrees 51' 14.1" E a distance of 93.06 feet;

> thence with said parallel right-of-way line 200 feet to the left or northerly side continuing S 87 degrees 51' 14.1" E a distance of 800 feet;

> thence with said parallel right-of-way line 300 feet to the left or northerly side, continuing S 87 degrees 51' 14.1" E a distance of 438.99 feet to the point of beginning of a 0 degrees 45' circular curve concave to the south, the radius of which is 7,639.44 feet;

> thence continuing with said parallel right-of-way line 300 feet to the left or northerly side, southeasterly along said curve through a central angle of 5 degrees 26' 54.8" a distance of 726.47 feet, to the point of ending of said curve;

> thence continuing with said parallel right-of-way line 300 feet to the left or northerly side, S 82 degrees 24' 19.3" E a distance of 435 feet, more or less, until said southerly right-of-way boundary as described in Book 102 at page 72 intersects the east boundary of said NW1/4SE1/4.

Note:

All bearings and distances in these descriptions are based on the Wyoming State Plane Coordinate System, East Central Zone,

2014-709925 1/10/2014 12:57 PM PAGE: 5 OF 5
BOOK: 545 PAGE: 165 FEES: \$24.00 PK MEMORANDUM OF AGR
EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

modified to Wyoming Highway Department Coordinate System by an adjustment factor of 1.0003000.

Containing in all 894 acres, more or less, and also being subject to all easements, rights-of-way and reservations of record.

NO. 2014-709925 MEMORANDUM OF AGREEMENT EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK THRONE LAW OFFICE P O BOX 1056 SHERIDAN WY 82801

Attachment C

2012-699337 9/17/2012 8:46 AM PAGE: 1 OF 1 BOOK: 536 PAGE: 401 FEES: \$8.00 MD MEMORANDUM OF AGREEDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

STATE OF WYOMING) secondly Of Sheridan)

MEMORANDUM OF AGREEMENT

NOTICE IS HEREBY GIVEN that under a certain Agreement ("Agreement") dated effective August 22nd 2012, by and between Taylor Investments, LLC ("Owner"), whose address is 1718 Hwy 345, Ranchester, WY 82839, and Ramaco Wyoming Coal Co., LLC ("Operator"), whose address is 250 West Main Street, Suite 210, Lexington, KY 40507, Owner has granted Operator a license to enter upon, over, and across certain lands in Sheridan County, Wyoming, as more particularly described on the attached Exhibit "A," which is incorporated by this reference ("Lands"). The Agreement grants Operator the right to conduct mineral exploration and related activities on the Lands for a period of two (2) years. The Agreement also grants Operator the right and privilege to enter and use all the surface of the Lands as may be convenient and necessary for mining the fee coal owned by Operator underlying the surface of the Lands for a period of twenty (20) years.

Additionally, Owner has granted Operator the exclusive right and privilege to mine, extract, and remove all of the coal deposits, and other minerals comingled therewith, in and under the Lands. The right to coal mine described herein applies to the Taylor owned coal described on Exhibit "A," and the term of the Agreement is for a period of twenty (20) years.

This Memorandum is executed for the purpose of providing notice of the existence of the Agreement between Owner and Operator and certain of the terms and provisions thereof. All of the terms and provisions of the Agreement are incorporated herein by reference for all purposes. This Memorandum is not intended to alter or vary the terms of the Agreement. Copies of the Agreement are on file with the signatories to this Memorandum.

DATED this 22 day of Aogust TAYLOR INVESTMENTS, LLC RAMACO WYOMING COAL CO., LLC)) SS. COUNTY OF LeRoy Taylor, Managing Member of Taylor Investments, LLC, whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing 2012. Memorandum before me this 23 day of _ Witness my hand and official seal. Notary Public My Commission expires: 5-13-14) SS. COUNTY OF Sheridan

Randall W. Atkins, Chief Executive Office of Ramaco Wyoming Coal Co., LLC, whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this 29 day of August 2012.

Witness my hand and official seal.

18, 2013 Sheridan County Wyomi

COUNTY OF STATE OF WYOMING

My Commission expires: June

2012-699818 10/4/2013 :31 AM PAGE: 1 OF 3
BOOK: 536 PAGE: 630 FEES: \$14.00 KA CORRECTED MEMO
EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

STATE OF WYOMING

)) ss.

COUNTY OF SHERIDAN

CORRECTED
MEMORANDUM OF AGREEMENT

NOTICE IS HEREBY GIVEN that under a certain Agreement ("Agreement") dated effective August 22, 2012, by and between Taylor Investments, LLC ("Owner"), whose address is 1718 Hwy 345, Ranchester, WY 82839, and Ramaco Wyoming Coal Co., LLC ("Operator"), whose address is 250 West Main Street, Suite 210, Lexington, KY 40507, Owner has granted Operator a license to enter upon, over, and across certain lands in Sheridan County, Wyoming, as more particularly described on the attached Exhibit "A," which is incorporated by this reference ("Lands"). The Agreement grants Operator the right to conduct mineral exploration and related activities on the Lands for a period of two (2) years. The Agreement also grants Operator the right and privilege to enter and use all the surface of the Lands as may be convenient and necessary for mining the fee coal owned by Operator underlying the surface of the Lands for a period of twenty (20) years.

Additionally, Owner has granted Operator the exclusive right and privilege to mine, extract, and remove all of the coal deposits, and other minerals comingled therewith, in and under the Lands. The right to coal mine described herein applies to the Taylor owned coal described on Exhibit "A," and the term of the Agreement is for a period of twenty (20) years.

This Memorandum is executed for the purpose of providing notice of the existence of the Agreement between Owner and Operator and certain of the terms and provisions thereof. All of the terms and provisions of the Agreement are incorporated herein by reference for all purposes. This Memorandum is not intended to alter or vary the terms of the Agreement. Copies of the Agreement are on file with the signatories to this Memorandum.

NOTE: This Memorandum of Agreement was originally recorded without Exhibit "A" in Book 536 at page 401. This Corrected Memorandum of Agreement is being recorded to include the Exhibit "A."

DATED this 71 day of September, 20/2

TAYLOR INVESTMENTS, LLC

By: Wellow D. Taylor

By: Working

STATE OF Wyoming

SS.

COUNTY OF Sheridan

My Commission expires: 12 13 2015

STATE OF Wyoming

SS.

COUNTY OF Sheridan

STATE OF Wyoming

STATE OF Wyoming

STATE OF Sheridan

STATE OF Wyoming

STATE OF Sheridan

SS.

COUNTY OF Sheridan

SS.

COUNTY OF Sheridan

SS.

Randall W. Atkins, Chief Executive Officer of Ramaco Wyoming Coal Co., LLC, whose identity is known or was proven to me on the basis of satisfactory evidence, acknowledged the foregoing Memorandum before me this 215 day of Scotember 2012.

Witness my hand and official seal.

Notary Public

My Commission expires: 12/18/2015

2012-699818 /2012 10:31 AM PAGE: 2 OF 3 BOOK: 536 PAGE: 631 FEES: \$14.00 KA CORRECTED MEMO EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

Exhibit "A"

to Exploration Agreement, Surface Access Agreement, and Coal Mining Lease Agreement

Taylor Surface Lands - Taylor/Legerski Fee Coal

Township 57 North, Range 85 West, 6th P.M., Sheridan County, Wyoming.

Section 12: South half of the Northeast quarter, the Southeast quarter of the Northwest quarter, the Southeast quarter and the East half of the Southwest quarter.

Section 13: North half of the Northeast quarter and the Northeast quarter of the Northwest quarter.

Excepting that portion conveyed to The State Highway Commission of Wyoming by Warranty Deed recorded February 10, 1981 in Book 255, Page 70.

Taylor Surface Lands - Ramaco Fee Coal

Township 57 North, Range 84 West, 6th P.M., Sheridan County, Wyoming.

Section 18: All that portion of Lot 4 (SW1/4SW1/4) lying north of the northerly right of way line of Interstate Highway No. 90, said northerly right of way line being of hereinafter stated distances to the left or northerly side measured at right angles or radially to the following described survey line of highway, said parallel right of way line beginning on the west boundary and ending on the east boundary of said Lot 4; beginning at a point on said west boundary from which the southwest corner of Section 18 bears S. 0° 30′ E. a distance of 862.5 feet; thence with said parallel right of way lines 270 feet to the left or northerly side, S. 81° 23.6′ E. a distance of 876.2 feet; thence with said parallel right of way line 210 feet to the left or northerly side, continuing S. 81° 23.6′ E. a distance of 455 feet, more or less, to a point on said east boundary. ALSO, NW1/4, N1/2SW1/4 and SE1/4SW1/4

Excepting that portion conveyed to The State of Wyoming Highway Commission of Wyoming by Warranty Deed recorded February 10, 1981 in Book 255, Page 70.

Township 57 North, Range 85 West, 6th P.M., Sheridan County, Wyoming.

Section 11: SE1/4SE1/4

Section 12: SW1/4SW1/4

Section 13: NW1/4NW1/4, S1/2N1/2, NE1/4SE1/4, and also all of the SW1/4 and W1/2SE1/4, except that portion thereof lying South of U.S. Highway No. 87 (now Interstate 90); also all that portion of the SE1/4SE1/4 lying north of the northerly right of way line of Interstate Highway No. 90, said northerly right of way line being 270 feet to the right or northerly side when measured at right angles to the following described survey line of highway, said northerly right of way begins on the east boundary and ends on the north boundary of said SE1/4SE1/4; beginning at a point on said east boundary from which the southeast corner of said Section 13, bears S. 0° 30' E, a distance of 862.5 feet; thence N. 81° 23.6' W. a distance of 82.9 feet to the point of beginning of a 1° 00' circular curve to the right, the radius of which is 5,729.6 feet; thence along said curve through a central angle of 10° 38.4' a distance of 1,064.1 feet to the point of ending of said curve; thence N. 70° 45.1' W. a distance of 45 feet, more or less, to a point on the west boundary of said SE1/4SE1/4 from which the northwest corner thereof bears northerly a distance of 230 feet, more or less.

> Exhibit "A" Page 1 of 2 DEQ Ex. 7-036

2012-699818 10/4/2012 10:31 AM PAGE: 3 OF 3 BOOK: 536 PAGE: 632 FEES: \$14.00 KA CORRECTED MEMO EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK

Excepting the right of way of the C.B. & Q. Railroad, also excepting the right of way of the Grand Island and Northern Wyoming Railroad Company as recorded July 11, 1893 in Book E, Page 253 of Deeds, and Recorded June 11, 1894 in Book E, Page 427 of Deeds,

Also excepting that portion conveyed to The State Highway Commission of Wyoming by Warranty Deed recorded February 10, 1981 in Book 255, Page 70.

Section 14: E1/2NE1/4, and all of the NE1/4SE1/4 excepting therefrom the following tract of land, to-wit: Beginning at the Southeast corner of said NE1/4SE1/4; thence West to the Southwest corner of said NE1/4SE1/4; thence North 205 feet to the South line of the County Road; thence Southeasterly along said road to the East line of said Section 14; thence South 27 feet to the point of beginning.

Excepting a portion conveyed to The State Highway Commission of Wyoming by Warranty Deed recorded February 10, 1981 in Book 255, Page 70.

NO. 2012-699818 CORRECTED MEMO EDA SCHUNK THOMPSON, SHERIDAN COUNTY CLERK THRONE LAW OFFICE P O BOX 1056 SHERIDAN WY 82801

Exhibit "A"
Page 2 of 2
DEO Ex. 7-037

NOTE:

DO NOT CUT OR MODIFY THIS

FORM. Sign with blue ink. Submit two (2) copies, one of which must be an original Form 3 as supplied by the Department of Environmental Quality, Land Quality Division.

STATE OF WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY LAND QUALITY DIVISION APPLICATION FOR LICENSE TO MINE

This application in duplicate for a license to mine is submitted in accordance with the provisions of the Wyoming Statute §35-11-410.

		Addres		view Dr., Suite 2	201	
			Sheridan, V			
			-			•
Loca	tion of mining or	peration (Cou	nty):	Sheridan		
(a)	A copy of the proposed mini			erewith, for the	lands which	th are to be affected by the
	Permit No	Pending	Issued		_day of	
(b)				older, a copy of the to the applicant to		ent of permission submitted reto;
	s showing the loca year of operation					sed mining operation for th
	of affected area mable so as to sho		_			The scale of maps shall be
	Sugges	sted scales:		10 acres - 1		
				40 acres - 1 eres or more - 1		
Date	(month and year) when operat	tion will comm	ence:	Octo	ober, 2015
						October, 2032
A fee	e of \$25.00.					
the V		nmental Qua		Quality Division	on or Rules	tice under the provisions of s and Regulations adopted 307-674-8000
		Addr	ess: 1101 Suga	rview Dr., Suite	201	
			Sheridan,	WY 82801		
provi		ise to any cir	cumstance, is l	neld invalid, the	application	se, or the application of an of such provision to othe
						-1.45
3		Initial Kin		10/23/14	Per	mit No.

Page 1 of 2

(Principal)

FINAL SWORN STATEMENT

State of	Wyoming	_)				
County of	Sheridan)ss.)				
I	Randall W. Atk	tins	being duly swo	orn on my oa	ath that I am the app	licant (or the
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applicant has desired; that a not involved i license to min by or under co under the juri- under commo	the right and power by tapplicant or entities continuous for feiture proceedings in forfeiture proceedings in suspended or revoked formon control with the sdiction of P.L. 95-87 as on control with the application of the five year revoked in the five year	trolled by or uno s for, a bond pos ; and if a surfac applicant has pa s required by Tit cant has not had	whed to mine from the common consted for reclamate e coal mining and the reclamation of that law any Federal or the coal many federal or the coal mining any federal or the coal mining any federal or the coal mining any federal or the coal mining federal or the coa	om the land atrol with the ion purpose pplication, to on fees for to and that ap State Coal m	for which this Licente applicant has not for some has had a minimental applicant or entition and all coal minimplicant or entities continued to the second s	se to Mine is orfeited, or is ag permit or a ies controlled ag operations ntrolled by or
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			Signature	able W.	attus	
(Corp	orate Seal)		Name		ndall W. Atkins ited or typed)	
			Title	Manage	er, Chairman, CEO	
The foregoing	g instrument was acknowledged of C+06	wledged before	me by Ran	dall	W. Atkins	
iiis	_day di	, 20,14				
Witness my h	and and official seal.		Notary Public o	or Secretary	if a Corporation	
SHELLEENA	SMITH NOTARY PUBLIC	t			Snith	
COUNTY OF SHERIDAN	STATE OF		(Name printed			
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Approved by						
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Form 3		Q.m			Permit No	
Rev. 6/2013 Page 2 of 2	Initial	(Principal)	Date 10/23/10	1	TFN No	

DEQ Ex. 7-039

TFN 6 2/025 RECD NOV 14,2014 October 6, 2017

Wyoming DEQ Received

OCT 092017

Abandoneo Mine Land Division

Mr. Alan Edwards, Deputy Director Department of Environmental Quality 200 W. 17th Street Cheyenne, WY 82002

> RE: Brook Mine Permit Application Sheridan County, Wyoming EQC Docket No. 17-4802

Dear Mr. Edwards:

As you know, we have been a party to the above-referenced proceedings regarding the proposed Brook Mine Permit. During those proceedings there was a suggestion that landowners had resisted DEQ access to their property for the purposes of making Alluvial Valley Floor (AVF) determinations. We were never contacted by anyone from DEQ requesting access for this purpose, and we never denied any such access.

The purpose of this letter is to inform the Department Of Environmental Quality that as owners of the property located at 32 Slater Creek Lane, Ranchester, Wyoming which is within the ½ mile boundary of the proposed mine, we hereby grant access to DEQ personnel for the purpose of investigating and making AVF determination on our property which sits adjacent to the Tongue River itself. Evidence from the hearing shows that DEQ already considers this likely to be alluvial valley floor.

We do ask that DEQ contact us <u>prior to entry</u> onto our property and advise us of when personnel will be on the property and identify those persons who will be on site. If someone other than DEQ personnel will be in attendance or participating, we also request that information be provided in advance. We can be reached at (307) 673-5026 or (307) 751-8123. Thank you.

Sincerely.

Mary Brezik-Fisher

David Fisher

MBF

cc: Jay A. Gilbertz (via hand delivery)

B.J. Kristiansen, DEO's Sheridan Office (via hand delivery)

Shannon Anderson, via email

Lynne Boomgaarden/Clayton Gregersen, via email

Andrew Kuhlmann/James LaRock, via email

Thomas J. Sansonetti/Isaac Sutphin/Jeff Pope, via email

Ryan Schelhaas, via email

63/025

DCT 24 2016
RECEIVED

SURFACE LAND OWNER'S CONSENT

Big Horn Coal Company, LLC (Surface Land Owner) CERTIFIES that it is the surface owner of the following described property on which Brook Mining Company, LLC (Applicant) proposes to operate or property which must be crossed to access Applicant's operations as proposed in Applicant's mining and reclamation plans:

As described in the attached Attachment A, incorporated herein

Land Owner and Applicant are parties to an action pending before the Wyoming Environmental Quality Council entitled *In Re Brook Mine Application*, Civil Action No. 16-1601. Without waiving any rights which Land Owner may have in that action or any subsequent appeal, Land Owner hereby grants access to the above described property to the Department of Environmental Quality, Land Quality Division, to enter and carry out mine inspections related to Applicant's permitted operations. Such entry and inspections shall be conducted during normal business hours and in compliance with all applicable federal, state and local laws, permit conditions, and mining industry safety practices. Nothing in this consent should be construed as consent by Land Owner to Applicant's mining and reclamation plans or consent to enter and carry out those mining and reclamation programs on said lands except as may be ordered by the Wyoming Environmental Quality Council or a court of competent jurisdiction.

Dated this 18 day of October , 2016.

Surface Land Owner (Signature)

Name (printed or typed)

STATE OF <u>UTA H</u>) ss.	
COUNTY OF SALT LAKE) ss.	
Subscribed and sworn to before me by	Wdan Sweeney this 18 day of
Witness my hand and official seal.	
MICHAEL O'ROURKE NOTARY PUBLIC -STATE OF UTAH My Comm. Exp 07/18/2020 Commission # 689968 Notary Pub	blic
My Comm	nission expires

OCT 24 2016

ATTACHMENT A

[Description of Big Horn Coal Co. lands within current Brook Mine Permit area]

Township 57 North, Range 84 West, 6th P.M., Sheridan County, WY

- Section 9: SW¼NW¼, SW¼, SE¼ part containing 159 acres more or less, SW¼NE¼ part containing 36 acres more or less, SE¼NE¼ part containing 8 acres more or less, NW¼NE¼ part containing 5 acres more or less
- Section 10: SW1/4 part containing 73 acres more or less
- Section 15: NW¼, W½NE¼ part containing 42 acres more or less, SE¼ part containing 88 acres more or less, SE¼SW¼ part containing 4 acres more or less
- Section 21: NE¼ part containing 36 acres more or less, NW¼ part containing 5 acres more or less
- Section 22: NW¼ part containing 59 acres more or less, NE¼, SE¼ part containing 61 acres more or less, SW¼ part containing 16 acres more or less
- Section 27: W½NW¼ part containing 3 acres more or less (the "Big Horn Coal Co. Surface Lands" Exhibit 1 to Attachment A)

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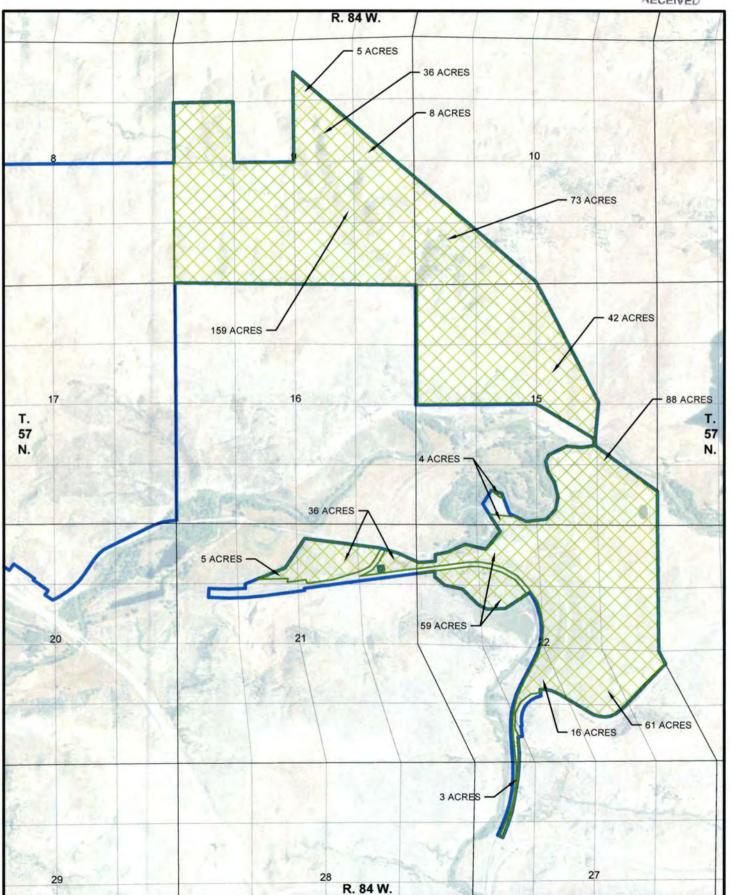
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WYOMING GAME AND FISH DEPARTMENT

5400 Bishop Blvd. Cheyenne, WY 82006 Phone: (307) 777-4600 Fax: (307) 777-4699 wgfd.wyo.gov GOVERNOR
MATTHEW H. MEAD

DIRECTOR
SCOTT TALBOTT

COMMISSIONERS
CHARLES PRICE - President
T. CARRIE LITTLE- Vice President
MARK ANSELMI
PATRICK CRANK
KEITH CULVER
RICHARD KLOUDA
DAVID RAEL

January 26, 2017

WER 13896.00 Wyoming Department of Environmental Quality Land Quality Division Coal Mine Permit Application Brook Mine -TFN 6 2/025 Sheridan County

Bjarne J. Kristiansen Department of Environmental Quality Land Quality Division 2100 West 5th Street Sheridan, WY 82801



Dear Mr. Kristiansen,

The staff of the Wyoming Game and Fish Department has reviewed the Coal Mine Permit Application for the Brook Mine in Sheridan County. We offer the following comments for your consideration.

This proposed project is outside Sage-grouse Core and Connectivity areas. There is one active Sage-grouse lek - Slater Creek - within two miles of the proposed mine boundary. Per the Sage-grouse Executive Order (SGEO) Greater Sage-grouse timing stipulations should be required on a new permit for development activities within two miles of an occupied lek. Any year-round occupancy within 0.25 miles of the perimeter of a lek would require an exception and likely compensatory mitigation.

There are four bald eagle nests within two miles of the proposed mine boundary. There is quality bald eagle nesting habitat within the proposed mine boundary, and bald eagles likely forage within the proposed mine boundary along the Tongue River, Goose Creek and at Kleenburn Pond. The proponents would need to work with the U.S. Fish and Wildlife Service regarding disturbance of this habitat and potential 'take.'

Significant hunting and fishing recreation occurs within the proposed mine boundary. There are fee title lands owned by Padlock Ranch and Bighorn Coal near Acme enrolled in the Access Yes Walk-In Access program. There is also a State Trust Land section near Acme where we have a purchased parking easement for hunting, fishing and boating access. Kleenburn Pond is located on Sheridan County property and has recently received significant upgrades and improvements. We hope recreational activities can continue near these areas as appropriate.

PERMIT NO. 62/025

Bjarne Kristiansen January 26, 2017 Page 2 of 2 – WER 13896.00

Thank you for the opportunity to comment. If you have any questions or concerns, please contact Tim Thomas, Sheridan Wildlife Biologist, (307) 672-7418.

Sincerely,

Mary Flanderka

Habitat Protection Supervisor

MF/ns

cc: USFWS

Chris Wichmann, Wyoming Department of Agriculture, Cheyenne

Tim Thomas, WGFD, Sheridan Region



TFN 62/025

WELLS FARGO BANK

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SHERIDAN MAIN 424 N MAIN ST SHERIDAN, WY 82801

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AFFP

Docket No. 17-4802

Affidavit of Publication

STATE OF WYOMING }
COUNTY OF SHERIDAN }

SS

Irene L. Nettles, being duly sworn, says:

That she is Clerk of the The Sheridan Press, a daily newspaper of general circulation, printed and published in Sheridan, Sheridan County, Wyoming; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

May 19, 2017

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Clerk

Subscribed to and sworn to me this 19th day of May 2017.

Tami Starbuck, Notary Public, Sheridan County, Wyoming

My commission expires: May 16, 2020

04104134 00081342

Environmental Quality Council Herschler Bldg., Room 1714 122 West 25th Street Cheyenne, WY 82002 LEGAL NOTICE

NOTICE OF A PUBLIC HEARING

Pursuant to the provisions of the Wyoming Environmental Quality Act and the Rules of Practice and Procedure of the Department of Environmental Quality, a public hearing relative to the objections to the mining permit application Brook Mine, TFN 6 2/025, Docket No. 17-4802 will be held by the Wyoming Environmental Quality Council beginning at 3: 00 p.m. on May 22, 2017 at the Sheridan College, Room TRCC 008 in the Thorne-Rider Campus Center, 3059 Coffeen Avenue, Sheridan, WY.

This hearing will be conducted in accordance with the provisions of Chapter II of the Rules of Practice and Procedure and the Administrative Procedure Act.

This hearing is held pursuant to Sections 35-11-101 through 35-11-2004, W.S. 2017, As Amended, regulations promulgated thereunder, and the Department of Environmental Quality Rules of Practice and Procedure.

A copy of the permit application is available for review in the office of the Department of Environmental Quality, Land Quality Division, Herschler Building, 200 West 17th Street, Cheyenne, WY, and at the Sheridan County Clerk's Office in Sheridan, WY.

In Accordance with the Americans with Disabilities Act, special assistance or alternate formats will be made available upon request for individuals with disabilities. For assistance, please call (307) 777-7170. Publish date: May 19, 2017.

LEGAL NOTICE NOTICE OF A PUBLIC HEARING

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Publish date: May 19, 2017.



TAMI STARBUCK - NOTARY PUBLIC

WYOMING

COUNTY OF

SHERIDAN

Av Commission Ex

AFFP
Hearing for Coal Mining Permit

LQD

JAN - 6 2017

RECEIVED

Affidavit of Publication

STATE OF WYOMING }
COUNTY OF SHERIDAN }

SS

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That she is Clerk of the The Sheridan Press, a daily newspaper of general circulation, printed and published in Sheridan, Sheridan County, Wyoming; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

December 07, 2016, December 14, 2016, December 21, 2016, December 28, 2016

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Clerk

Subscribed to and sworn to me this 28th day of December

2016.

Tami Starbuck, Notary Public, Sheridan County, Wyoming

My commission expires: May 16, 2020

02104859 00077484

WWC Engineering 1849 Terra Avenue SHERIDAN, WY 82801 TAMI STARBUCK - NOTARY PUBLIC

COUNTY OF SHERIDAN

My Commission Expires 5 116 2 0

Public Notice

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BEFORE THE DEPARTMENT OF ENVIRONMENTAL QUALITY LAND QUALITY DIVISION

IN THE MATTER OF THE Permit to Mine Coal)
PERMIT APPLICATION OF Brook Mining Co., LLC,)
TFN 6 2/025.)

AFFIDAVIT OF Randall W. Atkins OF NOTICE

- I, Randall W. Atkins, after being duly sworn upon my oath, deposes and states as follows:
- 1) I am appointed to the office of Chief Executive Officer, for RAMACO. I am submitting this affidavit to comply with the sworn statement requirement in W.S. §35-11-406(j). In my capacity as Chief Executive Officer, I am responsible for ensuring that RAMACO has complied with the notice requirements in W.S. §35-11-406(j) for the above-captioned permit application. This application is for a surface coal mining permit/permit amendment.
- On December 1, 2016, RAMACO received notice from the Department of Environmental Quality, Land Quality Division that it has determined our application is complete and suitable for final publication.
- 3) On December 7, 2016, The Sheridan Press printed the first notice in the required four-week sequence for final publication of this application. On December 7, 2016, WWC Engineering on behalf of RAMACO mailed a copy of the notice to all surface owners of record of the land within the proposed permit area, to all surface owners of record of immediately adjacent lands, and to all surface owners within one-half (1/2) mile of the proposed mining site. On December 5, 2016, WWC Engineering on behalf of RAMACO mailed a copy of the application mining plan map to the Wyoming Oil and Gas Commission.

DATED 12/9/14

Randall W. Atkins Chief Executive Officer



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STATE OF WYOMING)
COUNTY OF Sheridan) ss)

Subscribed, sworn to and acknowledged before me by (NAME) on this day of

Dec, 2016.

Notary Public

My Commission expires: June 18,2017





MEMORANDUM OF PUBLICATION

The Sheridan Press 144 E. Grinnell Avenue Sheridan, WY 82801 Phone: (307) 672-2431 Fax: (307) 672-7950 www.sheridanpress.com

Jeff Barron WWC Engineering 1849 Terra Avenue SHERIDAN, WY 82801

Class Liner Ad #00077484

Ad Description: Hearing for Coal Mining

Permit

Size: 2.00 x 6.74

Publication Cost	\$480.60
Adjustments	\$0.00
Net Cost	\$480.60
Prepaid Amount	\$480.60
Amount Due	\$0.00

Order Detail:

Publication	Run Date	Cost
Insertion	12/7/16	\$120.15
Insertion	12/14/16	\$120.15
Insertion	12/21/16	\$120.15
Insertion	12/28/16	\$120.15

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Publish dates: December 7, 14, 21, 28, 2016.

WEDNESDAY, DECEMBER 7, 2016

claim an interest in said vehicle and/or a reasonable attempt has been made to locate and/or contact all persons known to claim an interest in said vehicle. The proposed sale is to be held at 1450 industrial Dr. Sheridan, WY on December 20, 2016 at 3 p.m. Publish: November 30, December 7, 2016.

Public Notice The Brook Mining Co., LLC of 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801 has applied for a coal mining permit from the Land Quality Division of the Department of Environmental Quality for the State of Wyoming. The coal mining permit area will be located in: Sections 10, 11, 12, 13, 14 and 15 Township 57N, Range 85W and Sections 7, 8, 9, 10, 15, 17, 18, 20, 21, 22 and 27 Township 57N, Range 84W Sheridan County, Wyoming. The Brook Mine is located approximately 6 miles Northwest of Sheridan, Wyoming. This area can be found on the Acme and Monarch USGS quadrangle mans. The proposed operation is scheduled to begin July 2017 and is estimated to continue until 2032. The land, after mining, will be returned to a grazing land use. Information regarding the proposed mining operation and reclamation procedures may be reviewed in the Office of the Land Quality Division of the Department of Environmental Quality in Cheyenne and Sheridan, Wyoming, the office of RAMACO in Sheridan, WY, or the Sheridan County Clerk's Office Sheridan, Wyoming. Written objections to the proposed mining operation must be received by the Administrator of the Land Quality Division, Department of Environmental Quality, 200 W. 17th Street, Cheyenne, WY 82002, before the close of business January 27, 2017. The Director may hold an informal conference if requested, hear the complaint and take action on the application in accordance with the Department's Rules of Practice and Procedure. The complainants shall have a right of appeal to the Environmental Quality Council where the complaint will be heard a second time. A conference shall be held if the Director determines that the nature of the complaint or the position of the complainants indicates that an attempt to informally resolve the disputes is preferable to a contested case proceeding. An informal conference or a public hearing shall be held within twenty (20) days after the final date for filing objections unless a different period is stipulated to by the parties. The Council or Director shall publish notice of the time, date and location of the hearing or conference in a newspaper of general circulation in the locality of the proposed operation once a week for two (2) consecutive weeks immediately prior to the hearing or conference. The hearing would be conducted as a contested case in accordance with the Wyoming Administrative Procedure Act (W.S. \$16-3-101 through \$16-3-115), and the right of judicial review would be afforded as provided in that act. All parties as given in W.S. §35-11-406(j) will be mailed a copy of this notice. The Wyoming Oll and Gas Commission will be mailed a copy of the application mine plan map as required by W.S. §35-11-406(J) Publish dates: December 7, 14, 21, 28, 2016.

YOUR ELECTED OFFICIALS

TITY



307-675-4223



Commissione 307-674-2900



307-674-7535



County 307-674-2580

STATE



307-777-7434



House Dist. 57 307-672-7600



Mark Representative House Dist. 30 307-461-0697



Senator Senate Dist. 22 307-751-6428



Representative House Dist 40 307-684-9356



Klone Representative House Dist, 29 307-674-4777



Constru Senate Dist. 21 307-672-6491



RR THE SHERIDAN PRESS 336.23; Cedars Health, red (2,500) square 372.00; CH Diagnostics ally or four-family analysis, 1,145.00; Coca-Water for Recycling Cer Technologies, Reprogr Bounty. Advertising - It yard depth shall be 336.00; Craftco Metals f a corner lot, the pairs, 164.00; Crescente yard in which the 205.30; Dale Buckingharding faces, the depth Proj Mgmt Hallmark Bloet. The other yard Exam cost, 98.00; Danline and the line of manhole covers, 2,749.2 en (10) feet in depth. Professional services, 3yard depth shall be Professional services, 3 yard depth shall be services, 30,371,25; EMN vices Oct 2016, 1,250.00 lt is not greater than 2016 - Jan 31, 2017, 934 nurn width of the ground checks, 960.00; luilding shall be five 13,113,22; Farmers Co-ola common or party piles, 18,203,92; Fastenile family attached supplies, 968.24; Fedex inber of attached PCO Tests, 57.08; First Niloes not exceed four. pard St water line retaight the building Flood Marketing, Contratach side yard shall rett & Company, Geodepth, ground equip), 3,820.00 li be a lot area of not type I & II control servicio) square feet for a motor capacitor & wire than two thousand pairs to immersion probey for a two-family terms, IUS Annual Support hundred (800) Hawkins, Chemicals, 5,7 tiple dwellings. power Project #4552, 16, tion, paragraph, power Project #4552, 16 tion, paragraph, power Project #4552, loction, paragraph,
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5 672-2431

ence and meeting exp.

Affidavit of Publication

STATE OF WYOMING }
COUNTY OF SHERIDAN }

SS

Rena L. Appel, being duly sworn, says:

That she is Clerk of the The Sheridan Press, a daily newspaper of general circulation, printed and published in Sheridan, Sheridan County, Wyoming; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

November 08, 2014, November 15, 2014

t said newspaper was regularly issued and circulated hose dates.

SIGNED:

Clerk

Subscribed to and sworn to me this 15th day of November 2014.

Rebecca J. Martini, Notary Public, Sheridan County,

My commission expires: January 05, 2015

REBECCA J. MARTINI - NOTARY PUBLIC
County Of
Sheridan
My Commission Expires January 5, 2015

02104859 00057910

WWC Engineering 1849 Terra Avenue SHERIDAN, WY 82801 NOTICE

The Brook Mining Co., LLC of 1101 Sugarview Dr., Suite 201 Sheridan Wyoming has filed a mining permit application with the Land Quality Division of the Wyoming Department of Environmental Quality for the mining of coal in Sheridan County, Wyoming. The area is approximately 6 miles northwest of Sheridan, Wyoming. The application may be viewed at the Cheyenne or District 3 Office in Sheridan of the Land Quality Division. The application will be re-advertised for public comment prior to approval by the Department of Environmental Quality. Publish: November 8, 15, 2014.

NOTICE

The Brook Mining Co., LLC of 1101 Sugarview Dr., Suite 201 Sheridan Wyoming has filed a mining permit application with the Land Quality Division of the Wyoming Department of Environmental Quality for the mining of coal in Sheridan County, Wyoming. The area is approximately 6 miles northwest of Sheridan, Wyoming. The application may be viewed at the Cheyenne or District 3 Office in Sheridan of the Land Quality Division. The application will be re-advertised for public comment prior to approval by the Department of Environmental Quality.

Publish: November 8, 15, 2014.

LQD

NOV 2 6 2014

RECEIVED

62/025

MEMORANDUM OF PUBLICATION

The Sheridan Press 144 E. Grinnell Avenue Sheridan, WY 82801 Phone: (307) 672-2431 Fax: (307) 672-7950 www.sheridanpress.com

WWC Engineering 1849 Terra Avenue SHERIDAN, WY 82801 (307)672-0761

Class Liner Ad #00057910 Summary:

Ad Description: NOTICEThe Brook

Mining Co., LL Size: 2.00 x 2.49

Publication Cost \$89.00
Adjustments \$0.00
Net Cost \$89.00
Prepaid Amount \$0.00
Amount Due \$89.00

Order Detail:

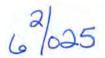
Publication	Run Date	Cost
Insertion	11/8/14	\$44.50
Insertion	11/15/14	\$44.50

NOTICE

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Publish: November 8, 15, 2014.

NOV 2 1 2014 RECEIVED



02/26/2020

Application Evaluation

Application Number

TFN62/025 SEQ:0

Applicant Name

255677 Brook Mining Co LLC

Date of Request

12/2/2016 10:50:09 AM

Requestor

Guest

CAUTION: The Applicant/Violator System (AVS) is an informational database. Permit eligibility determinations are made by the regulatory authority with jurisdiction over the permit application not by the AVS. Results which display outstanding violations may not include critical information about settlements or other conditions that affect permit eligibility. Consult the AVS Office at 800-643-9748 for verification of information prior to making decisions on these results.

There were no violations retrieved by the system

Evaluation OFT

Narrative

RAMACO Brook Mine

The Applicant, and any other surface right and mineral right holder that is a corporation or partnership are listed as follows:

Brook Mining Co., LLC:

- Address: 250 West Main Street, Suite 210, Lexington, KY 40507
- Sole Member: Ramaco, LLC, 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801
- Manager/Chairman/CEO: Randall W. Atkins, 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801
- Manager/President/Secretary: Michael D. Bauersachs, 250 West Main Street, Suite 210, Lexington, KY 40507
- Registered Agent: Throne Law Office, P.C., 424 North Main Street, Suite 201, Sheridan, WY 82801

Ramaco Wyoming Coal Co., LLC:

- Address: 250 West Main Street, Suite 210, Lexington, KY 40507
- Sole Member: Ramaco, LLC, 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801
- Manager/Chairman/CEO: Randall W. Atkins, 1101 Sugarview Drive, Suite 201, Sheridan, WY 82801
- Manager/President/Secretary: Michael D. Bauersachs, 250 West Main Street, Suite 210, Lexington, KY 40507
- Registered Agent: Throne Law Office, P.C., 424 North Main Street, Suite 201, Sheridan, WY 82801

Padlock Ranch Company

- Address: 8420 Highway 14, Ranchester, WY 82839
- Registered Agent: Wayne Fahsholtz, 8420 Highway 14, Ranchester, WY 82839

o Big Horn Coal Company

- Address: 170 South Main Street, Suite 700, Salt Lake City, UT 84101
- Registered Agent: C T Corporation System, 1712 Pioneer Avenue 120, Cheyenne, WY 82001
- President/Director: Everett King, 170 South Main Street, Suite 700, Salt Lake City, UT 84101
- <u>Secretary</u>: John Thomas, 170 South Main Street, Suite 700, Salt Lake City, UT 84101
- <u>Treasurer</u>: Darin Adlard, 170 South Main Street, Suite 700, Salt Lake City, UT 84101

TFN 6 2/025 RECD NOV 14,2014

MEMORANDUM

To: Dave Myers, Dave Schellinger, Deanna Hill, Doug Emme, Matt Kunze, Muthu Kuchanur,

Stacy Page, Jamie Jakes, Kim Medina

LOD

From: Bj Kristiansen

NOV 1 7 2014

Date: November 13, 2014

RECEIVED

Re: Brook Mining Co., LLC; Brook Mine Coal Mine Permit Application, TFN 6 2/025

The RAMACO Coal Mine Permit Application was received in the LQD, District III Office on Thursday, October 30, 2014. Mark Rogaczewski and myself examined the 12 volume document for Completeness and found three minor deficiencies. The deficiencies were addressed and corrected on Monday, November 3. The document was deemed Complete and was time stamped on the same date.

I am requesting your assistance in determining if this document is technically accurate and complete. The following Sections of the document are assigned based on your field of expertise:

VOLUME	SECTION	DESCRIPTION	ASSIGNED STAFF
Volume I and II		Adjudication	Deanna Hill
Volume III	Appendix D1	Land Use	Dave Myers, Dave Schellinger
	Appendix D2	History	Wyoming SHPO
	Appendix D3	Archeological Resources	Wyoming SHPO
	Appendix D4	Climatology	Dave Myers
Volume IV	Appendix D5	Topography	Dave Myers
		Geology	Myself, Kim Medina
		Overburden Assessment	Dave Schillinger
Volume V	Appendix D6	Hydrology-surface	Dave Myers, Matt Kunze
		Hydrology-groundwater	Muthu Kuchanur, Myself, Kim Medina
		CHIA	Matt Kunze, Muthu Kuchanur
Volume VI	Appendix D7	Soil Resources Assessment	Dave Schellinger
Volume VII	Appendix D8	Vegetation	Stacey Page, Jamie Jakes
Volume VIII	Appendix D9	Wildlife	USFWS, WGF
Volume IX	Appendix D10	Wetlands	US Army Corps of Engineers
Volume X	Appendix D11	AVF	Dave Myers, Myself

VOLUME	SECTION	DESCRIPTION	ASSIGNED STAFF
Volume XI	Appendix D11	Mine Plan	Staff
Volume XII	Appendix D12	Reclamation Plan	Doug Emme - Reclamation Bond
			Staff

Since we time stamped the Mine Permit Application, the 150 day review deadline will occur on April 3, 2015. I would appreciate it if you could complete your technical reviews approximately 3 to 4 weeks ahead of the deadline. There is quite a bit more material for me to coordinate since this is a new permit application and I suspect it will take me longer to tie up all the loose ends.

Please contact me if there is a problem with the review and we can work out alternative schedules, if necessary. The documents are in the library at this moment. I am also going to receive an electronic copy of all the permit components, including narrative and maps, and I will make that available on the server for those who prefer to examine the document electronically.

Sincerely,

NOV 1 7 2014

RECEIVED

Bj Kristiansen, PG Natural Resources Program Principal LQD - District III

/bk

cc: Cheyenne LQD files

2/27/2020 **Evaluation Report**

Interim AVS Check

Done: February 27, 2020

By: Karin Lea Quigley

Entity Evaluation

There were no violations retrieved by the system

Entity

255677 Number:

Entity Name:

Brook Mining Co LLC

Date Of

2/27/2020 4:38:18 PM

Narrative:

Requestor: karin.quigley@wyo.gov

CAUTION: The Applicant/Violator System (AVS) is an informational database. Permit eligibility determinations are made by the regulatory authority with jurisdiction over the permit application not by the AVS. Results which display outstanding violations may not include critical information about settlements or other conditions that affect permit eligibility. Consult the AVS Office at 800-643-9748 for verification of information prior to making decisions on these results.

Violation

Violation

Violation

Permit

Permitted

Violation

Violation

Type

Number

Entities

Number

State

Status

Date

Evaluation OFT

Entities: 16

253443 Yorktown IX Associates LLC - ()

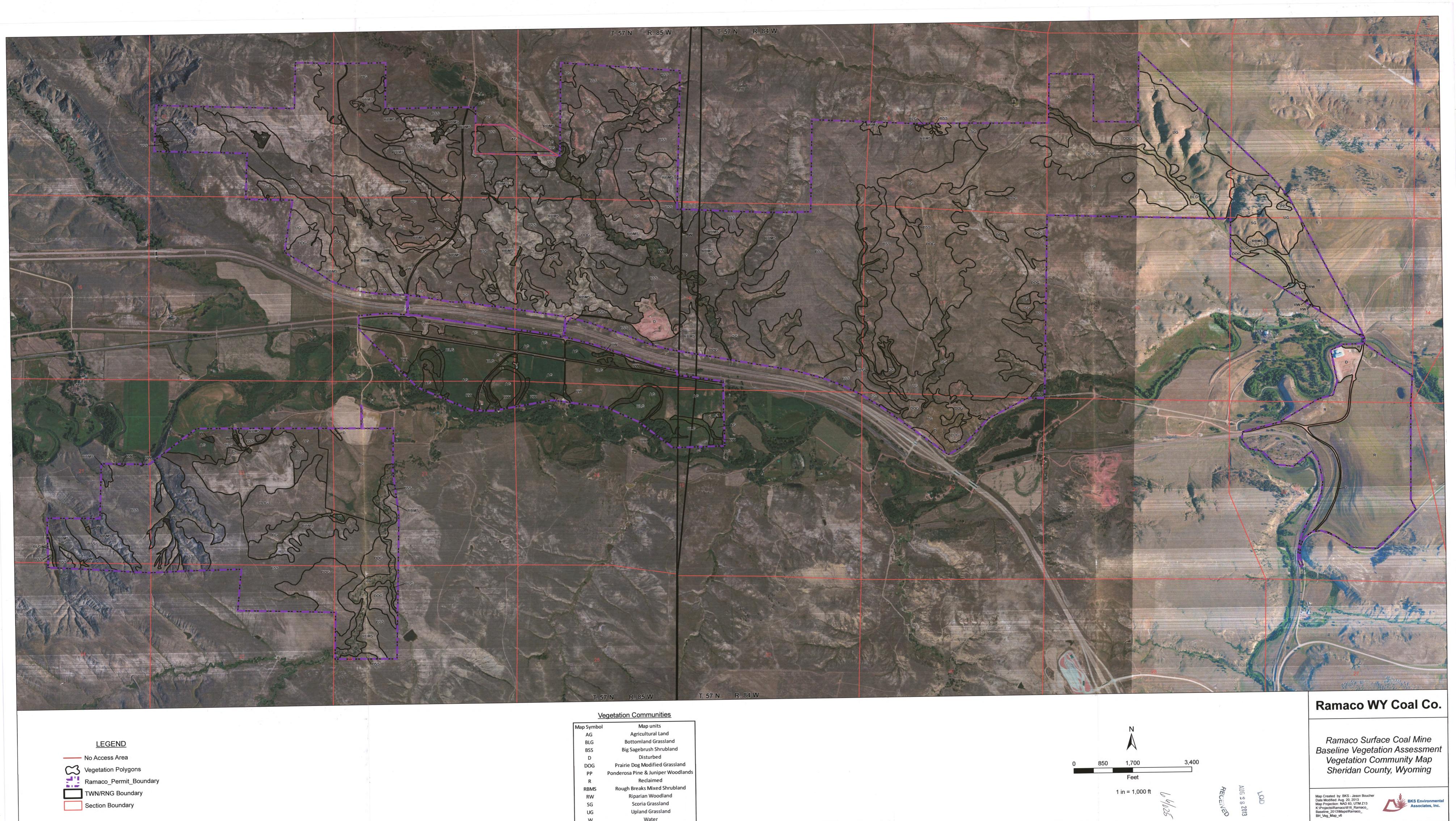
- ---159223 Bryan H Lawrence (Manager)
- ---159223 Bryan H Lawrence (Shareholder)
- ---159224 W Howard Keenan Jr (Manager)
- ---159224 W Howard Keenan Jr (Shareholder)
- ---247069 Peter A Leidel (Manager)
- ---247069 Peter A Leidel (Shareholder)
- ---247070 Tomas R LaCosta (Manager)
- ---247070 Tomas R LaCosta (Member)
- ---247071 Robert A Signorino (Manager)
- ---247071 Robert A Signorino (Member)
- ---253632 Yorktown IX Company LP (Subsidiary Company)
- -----159223 Bryan H Lawrence (Partner)
- -----159224 W Howard Keenan Jr (Partner)
- -----253436 Yorktown Energy Partners IX LP (Subsidiary Company)
- -----159223 Bryan H Lawrence (Manager)
- -----159223 Bryan H Lawrence (Partner)
- -----159224 W Howard Keenan Jr (Manager)
- -----159224 W Howard Keenan Jr (Partner)
- -----247069 Peter A Leidel (Manager)
- -----247070 Tomas R LaCosta (Manager)
- ------247071 Robert A Signorino (Manager) https://avss.osmre.gov/secure/evalreport.aspx?i=21867

DEQ Ex. 7-061

21/2020	
252902 Ramaco LLC - (Subsidiary Company)	
126787 Michael Dale Bauersachs - (Director)	
126787 Michael Dale Bauersachs - (Member)	
126787 Michael Dale Bauersachs - (President)	
126787 Michael Dale Bauersachs - (Secretary)	
159223 Bryan H Lawrence - (Director)	
159224 W Howard Keenan Jr - (Director)	
253435 Randall W Atkins - (Chairman of the Board)	
253435 Randall W Atkins - (Chief Executive Officer)	
253435 Randall W Atkins - (Director)	
255677 Brook Mining Co LLC - (Subsidiary Company)	
126787 Michael Dale Bauersachs - (Manager)	
126787 Michael Dale Bauersachs - (President)	
126787 Michael Dale Bauersachs - (Secretary)	
135447 Mark Allen Clemens - (Vice President)	
253435 Randall W Atkins - (Chairman of the Board)	
253435 Randall W Atkins - (Chief Operations Officer)	
253435 Randall W Atkins - (Manager)	
253435 Randall W Atkins - (Treasurer)	
260596 Ramaco Coal LLC - (Subsidiary Company)	
126787 Michael Dale Bauersachs - (Member)	
126787 Michael Dale Bauersachs - (President)	
126787 Michael Dale Bauersachs - (Secretary)	
253435 Randall W Atkins - (Chief Executive Officer)	
253435 Randall W Atkins - (Member)	
260597 Ramaco Carbon LLC - (Subsidiary Company)	
126787 Michael Dale Bauersachs - (President)	
253435 Randall W Atkins - (Chief Executive Officer)	
255677 Brook Mining Co LLC - (Subsidiary Company))
126787 Michael Dale Bauersachs - (Manager)	
126787 Michael Dale Bauersachs - (President)	
126787 Michael Dale Bauersachs - (Secretary)	
135447 Mark Allen Clemens - (Vice President)	
253435 Randall W Atkins - (Chairman of the Board)	
253435 Randall W Atkins - (Chief Operations Officer	r)
253435 Randall W Atkins - (Manager)	
253435 Randall W Atkins - (Treasurer)	
260082 Bryan R Lawrence - (Member)	

Narrative

2/27/2020 - There were no violations retrieved by the system. LPM



Upland Grassland Water

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Tom Laya P.O. Box 6750 Sherida o NIV 	A. Signature X. Double Jacob Agent Addresses B., Received by (Printed Name) C. Date of Delivery Valevie God Nos 1-30 D. Is delivery address different from item 17 Yes If YES, enter delivery address below: No
9590 9402 4550 8278 8532 56 2. Article Number (Transfer from service label)	3. Service Type ☐ Adult Signature ☐ Adult Signature ☐ Registered Mail™ ☐ Certified Mail® ☐ Certified Mail® ☐ Certified Mall Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™
7018 0130 000016941108	☐ Signature Confirmation
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt



TFNS 2/025 RECO MAR 04,2018

For delivery information, visit our website a	
OFFICIAL	USE
Return Receipt (electronic) \$	Postmark Here

1849 Terra Avenue • Sheridan, WY 82801 Phone: 307-672-0761 • Fax: 307-674-4265 www.wwcengineering.com

January 23, 2018

Tom Laya P.O. Box 6750 Sheridan WY, 82801

RE: Potential Well Impact

Dear Mr. Laya:

As part of the mine permit application for the Brook Mine, the rules and regulations require that the mine evaluates any potential groundwater impacts. This evaluation is presented in Section MP 6 of the Mine Plan for the Application. Section MP6.2.1 of the Brook Mine permit application TFN 6 2/025 states "there are eight wells that have the potential to be impacted by mine activities. Five wells are completed in the Tongue River alluvium. As discussed in Mine Plan Section 25, there is no hydrologic connection between the coal being mined and the Tongue River alluvium in this area. Well P144442 appears to be completed in alluvial gravels from 125 feet to 170 feet and located within a mine panel. This well may be impacted due to proximity to the mine panel." Below is a list of the 8 SEO well permits as they are listed in Section MP6.2.1 and highlighted are wells associated with your property. I have also enclosed copies of the SEO permits for your use. On behalf of Brook Mine, I am reaching out to you to obtain the information on water level elevation, available water column data, and GPS location if it is feasible to do so.

- P144442W (Overburden/Alluvial)
- P118684W (Tongue River Alluvial)
- P119576W (Tongue River Alluvial)
- P120822W (Tongue River Alluvial)
- P71814W (Coal)
- P8410W (Interburden)
- P84927W (Tongue River Alluvial)
- P93497W (Tongue River Alluvial)

Please contact me with a time I can collect the necessary information if you so desire. If you do not wish for us to collect this data please provide me a letter that states your desire for the mine not to collect this information.

Sincerely,

Jeff Barron, P.E. Project Engineer

JB/hjr

Attachment: as noted



FORM U.W. 5 Rev. 8/01 FILING FEE SCHL ON REVERSE SIDE

STATE OF

OFFICE OF THE - IN'E ENGINEER

HERSCHLER BLDG., 4-E CHEYENNE, WYOMING 82002

(307) 777-6163

APPLICATION FOR PERMIT TO APPROPRIATE GROUND WATER

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144442 Permit No. U.W.

under REMARKS.

SEE REVERSE SIDE DEQ Ex. 7-067k No. 1070

10. If for irrigation use, describe method of irrigation, i.e. center pivot sprinkler, flood, etc.: N/A

18 Page No.

9.304

(0)

DEO Ex. 7-068

TFNS 2/025 RECD MAR 04.2019

Scanne FORM U.W. 5 Rev. 3-99 FILING FEE SCH ON REVERSE SIDE Ď, SI

STATE OF

OFFICE OF THE STATE ENGINEER HERSCHLER BLDG., 4-E **CHEYENNE, WYOMING 82002**

APPLICATION FOR PERMIT TO APPROPRIATE GROUND WATER

APPLICATION FOR WELLS AND SPRINGS

Note: Only springs flowing 25 gallons per minute or less, where the proposed use is domestic and/or stock watering, will be considered as ground water appropriations.

(a) NO spr wat (b) Circ or 3 Mai ABUI	ing, af er righ MAXII	propried gallo	ns. s) or a	area(s	1/4			NW14	_	SE¼		SW NW¼	SW4	SE'4	NE%	NW14	1/4 SW1/4	SE%	TOTA	L
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	Munici	pal:																orated ous us	towns, subdive).	risions,
	Irrigation	on:			Watering of commercially grown crops (large-scale lawn watering of golf courses, cemeteries, recreation areas, etc., is miscellaneous use).															
1	Stock	Water	ing:												ile of s				ockwatering pi	pelines
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119576 Permit No. U.W.

DEQ Ex. 7-069 No.

903 Page No.

	ne well or spring is to be constructed on lands owned by			& Bo		6	71.
w	he granting of a permit does not constitute the granting of right th this application, it should be understood that the respons	sibility is the applicant'	s. A copy	-			
	is application, if the land is privately owned and the owner is		1	P			
	[2] : [1] : "시작 : [1] :	neis Lan		0,		land about	3
be	the landowner is not the applicant, a copy of the agreem e submitted to this office. If the landowner is included as co OTE: Water rights attach to the area(s) and/or point(s) of use	o-applicant on the app					
REMA	RKS:						
LEIVIN							-
_							-
v S		N. L. W. (172.173)	63.00	1 . F. J. F. W.	J. 305		
	penalties of perjury, I declare that I have examined this t and complete.	application and to th	ne best o	my knowled	ige and be	lief it is true	
Olloc							
	Jone J Jane		12	Oct		. 19 29	<u>.</u>
	Signature of Applicant or Authorized Agent			Date			
	THE LEGALLY REQUIRED FILING FEE	MUST ACCOMPANY	THIS AF	PLICATION			
ОМЕ	STIC AND/OR STOCK WATERING USES				\$25.0	0	
	(Domestic use is defined as use of water in 3 single family dwellings or less,						
	noncommercial watering of lawns and gardens totalling one acre or less.)	constitution			120	9	
RHIC	SATION, MUNICIPAL, INDUSTRIAL, MISCELLANEOUS,	, COAL BED METHA	NE.		\$50.0	00	
IONI	TOR (For water level measurements or chemical quality sampling) Or TE	ST WELL			NO FE	E	
	IF WELL WILL SERVE MULTIPLE USES, SI	UBMIT ONLY ONE (TI	HE HIGH	ER) FILING F	EE.		
	THIS SECTION IS NOT TO	BE FILLED IN BY AP	PLICANT				=
			7 77 77				
HES	STATE OF WYOMING)) ss.						
	E ENGINEER'S OFFICE)						
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	his instrument was received and filed for record on the	14th_	day o	_Octobe	r	, A.C	<i>)</i> .
	nis instrument was received and filed for record on the, at 9:30 o'clock a M.	14th	day d	_Octobe	r	, A.L	,
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PERMIT NO. U.W. 119576

PERMIT STATUS

Priority Date October 14, 1999 Approval Date October 20, 1999

October 12, 2000 - Statement of Completion on January 6, 2000 received.

Beneficial use assumed as of date of completion.

AUG 3 4 7000

1503

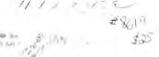
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FORM U.W. 5 Rev. 3-99 FILING FEE SCHE. ON REVERSE SIDE

HERSCHLER BLDG., 4-E CHEYENNE, WYOMING 82002

OFFICE OF THE STATE ENGINEER



APPLICATION FOR PERMIT TO APPROPRIATE GROUND WATER

APPLICATION FOR WELLS AND SPRINGS

Note: Only springs flowing 25 gallons per minute or less, where the proposed use is domestic and/or stock watering, will be considered as ground water appropriations.

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Ci	rcle a		riate u															acre-foo	of water per year			
М	ark th	e point	(s) or	area(s) of us	e in th	e tabu	lation	box be	elow.												
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 The well or spring is to be constructed on lands owned by (The granting of a permit does not constitute the granting of right with this application, it should be understood that the responsible application, if the land is privately owned and the owner is 	ght-of-way. If any easeme sibility is the applicant's.	ent or right-of		
The water is to be used on lands owned by (If the landowner is not the applicant, a copy of the agreed be submitted to this office. If the landowner is included as a NOTE: Water rights attach to the area(s) and/or point(s) of use.	co-applicant on the applica	e of appropr		
REMARKS:				
Under penalties of perjury, I declare that I have examined this correct and complete.	s application and to the i	best of my	knowledge and belief	it is true,
			M	00.
Signature of Applicant or Authorized Agent		1 th	Nov.	19 77
THE LEGALLY REQUIRED FILING FEE	E MUST ACCOMPANY TI	HIS APPLIC	ATION	
DOMESTIC AND/OR STOCK WATERING USES			\$25.00	
(Domestic use is defined as use of water in 3 single family dwellings or less, noncommercial watering of lawns and gardens totalling one acre or less.)				
RRIGATION, MUNICIPAL, INDUSTRIAL, MISCELLANEOUS	, COAL BED METHANE	<u>.</u>	\$50.00	
MONITOR (For water level measurements or chemical quality sampling) or TE	ST WELL		NO FEE	
IF WELL WILL SERVE MULTIPLE USES, S	UBMIT ONLY ONE (THE	HIGHER) F	ILING FEE.	
THIS SECTION IS NOT TO	BE FILLED IN BY APPL	ICANT		
THE STATE OF WYOMING)				
) ss.				
TATE ENGINEER'S OFFICE) This instrument was received and filed for record on the 9 99, at9:45 o'clockA M.	17th	day of	November	, A.D.
120822		_		
Permit No. U.W.	me	to	-	
	//	19 State	Engineer	
THIS IS TO CERTIFY that I have examined the foregoing applicated conditions:	ation and do hereby grant	the same s	ubject to the following	limitations
This application is approved subject to the condition that the water from the same source of supply and is subject to regulatic vaters are interconnected. The use of water hereunder is subject 1957, and any subsequent amendments thereto.	on and correlation with su	rface water	rights, if the ground a	ind surface
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Coal Bed Methane wells have Additional Conditions and Limitations	on attachment sheet.			
Approval of this application may be considered as authorization to	proceed with construction			Statement
approval of this application may be considered as authorization to if Completion will be filed within thirty (30) days of completion of c	proceed with constructio	mp installation	on.	
Approval of this application may be considered as authorization to of Completion will be filed within thirty (30) days of completion of completion of the beneficial use	proceed with constructio	mp installation	on.	
Approval of this application may be considered as authorization to a Completion will be filed within thirty (30) days of completion of construction and completion of the beneficial us will be made by December 31, 20	p proceed with construction construction, including puresse of water for the purp	mp installation	on. ed in Item 4 of this	application
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		PERMIT NO.	U.W	120822
51			PERMIT	STATUS
SI	Priority Date_	November 17, 1999		Approva

pproval Date November 29, 1999

October 12, 2000 - Statement of Completion on January 7, 2000 received.

Beneficial use assumed as of date of completion. AUG T 4 2001

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DE	LIVERY				
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. 	A. Signature	☐ Agent ☐ Addressee				
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name)	C. Date of Delivery				
John and Gaylere Johnson P.O.Box 424 Ranchester, Wy 92839	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No					
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9590 9402 4550 8278 8599 82 2. Article Number (Transfer from service label)	□ Adult Signature □ □ Adult Signature □ □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail Restricted Delivery □ □ Collect on Delivery □ □ Collect on Delivery Restricted Delivery □	Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmation™ Signature Confirmation				



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1849 Terra Avenue • Sheridan, WY 82801 Phone: 307-672-0761 • Fax: 307-674-4265 www.wwcengineering.com

January 23, 2018

John and Gaylene Johnson P.O. Box 424 Ranchester WY, 82839

RE: Potential Well Impact

Dear Mr. and Mrs. Johnson:

As part of the mine permit application for the Brook Mine, the rules and regulations require that the mine evaluates any potential groundwater impacts. This evaluation is presented in Section MP 6 of the Mine Plan for the Application. Section MP6.2.1 of the Brook Mine permit application TFN 6 2/025 states "there are eight wells that have the potential to be impacted by mine activities. Five wells are completed in the Tongue River alluvium. As discussed in Mine Plan Section 25, there is no hydrologic connection between the coal being mined and the Tongue River alluvium in this area and therefore no impacts to these wells is anticipated. Well P8410 is completed in several formations from 108 feet to 150 feet including an unknown water bearing coal from 124 feet to 131 feet. This unknow coal is below the coal that will be mined. Therefore, there should be no impacts due to mining on this well." Below is a list of the 8 SEO well permits as they are listed in Section MP6.2.1 and highlighted are wells associated with your property. I have also enclosed copies of the SEO permits for your use. On behalf of Brook Mine, I am reaching out to you to obtain the information on water level elevation, available water column data, and GPS location if it is feasible to do so.

- P144442W (Overburden/Alluvial)
- P118684W (Tongue River Alluvial)
- P119576W (Tongue River Alluvial)
- P120822W (Tongue River Alluvial)
- P71814W (Coal)
- P8410W (Interburden)
- P84927W (Tongue River Alluvial)
- P93497W (Tongue River Alluvial)

Please contact me with a time I can collect the necessary information if you so desire. If you do not wish for us to collect this data please provide me a letter that states your desire for the mine not to collect this information.

Sincerely.

Jeff Barron, P.E. Project Engineer

JB/hjr

Attachment: as noted

TFNS 2/025 RECD MAR 04,2019



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FORM U.W. 5 Rev. 3-95 FILING FEE SCHEDULE ON REVERSE SIDE

STATE OF WYOMING

OFFICE OF THE STATE ENGINEER HERSCHLER BLDG., 4-E CHEYENNE, WYOMING 82002

MICHO

APPLICATION FOR PERMIT TO APPROPRIATE GROUND WATER

APPLICATION FOR WELLS AND SPRINGS

Note: Only springs flowing 25 gallons per minute or less, where the proposed use is domestic and/or stock watering, will be considered as ground water appropriations.

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TFNS 2/025 RECD MAR 04,2018

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PERMIT NO. U.W. 118684

PERMIT STATUS

Priority Date September 9, 1999 Approval Date September 14, 1999

September 27, 2000 - Statement of Completion on August 29, 2000 received.

Beneficial Use assumed as of date of completion. FEB 05 7001

SCANNED JAN 2 6 2014

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FORM U.W 5 Rev. 5-79 FILING FEE SCHEDULE ON REVERSE SIDE

STATE OF WYOMING

OFFICE OF THE STATE ENGINEER HERSCHLER BUILDING CHEYENNE, WYOMING 82002

JAN 27 1994 MICRO

APPLICATION FOR PERMIT TO APPROPRIATE GROUND WATER

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11. If for irrigation use, describe method of irrigation, i.e. center pivot sprinkler, flood, etc.

Permit No. U.W. 93497

Book No. 715 Page No.

2. The well is to be constructed on lands owned by	OHN L. & GAYLENE JOHNSON
(The granting of a permit does not constitute the granting	of right of way. If any easement or right of way is necessary in conneces responsibility is the applicant's. A copy of the agreement should accom
	at relating to usage of appropriated water on the land should be submitted cant on the application, this procedure need not be followed.)
REMARKS:	
Under penalties of perjury, I declare that I have examined to	this application and to the best of my knowledge and belief it is true, cor-
Signature of Applicant or Authorized Agent	Date 1977
THE LEGALLY REQUIRED FILING F	FEE MUST ACCOMPANY THIS APPLICATION
DOMESTIC AND/OR STOCK WATERING USES (Domestic use is defined as a single-family dwelling and gardens not exceeding one (1) acre) RRIGATION, MUNICIPAL, INDUSTRIAL, MISCELLANEO	
MONITOR (For water level measurements or chemical quality	ity sampling) NO FEE
IF WELL WILL SERVE MULTIPLE USES, SUBMIT ONL	Y ONE (THE HIGHER) FILING FEE.
THIS SECTION IS NOT TO	D BE FILLED IN BY APPLICANT
THE STATE OF WYOMING)	
TATE ENGINEER'S OFFICE)	22-4 N
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ermit No. U.W. 93497	MES
ermit (vo. U. w	for State Engineer
THIS IS TO CERTIFY that I have examined the foregoin initations and conditions:	oing application and do hereby grant the same subject to the following
vater from the same source of supply and is subject to regulati	the proposed use shall not interfere with any existing rights to ground ion and correlation with surface water rights, if the ground and surface ect to the further provisions of Chapter 169, Session Laws of Wyoming,
	the water level or artesian pressure in the well maintained at any specific low for the maximum development and beneficial use of ground water in
If the well is a flowing artesian well, it shall be so constructions of water into surface formations or at the surface.	cted and equipped that the flow may be shut off when not in use, without
Approval of this application may be considered as autho	prization to proceed with construction of the proposed well.
	date of approval. A Statement of Completion will be filed within thirty
	cial use of water for the purposes specified in Item 4 of this application
pplication of water to beneficial use.	antity to which permittee is entitled as determined at time of proof of
Witness my hand thisday of	, A.D. 19
	State Engineer
on 16 1994 Notice of Comments	10 1004 majurd
e 16, 1994 - Notice of Commencement on May	y 19, 1994 received.
e 16, 1994- Statement of Completion on May Beneficial use assumed as of	date of completion. A MICRC OC 3 1 1994



Form U.W. 5

NOTE: Do not fold this form. Use type-writer or ball point pen.

STATE OF WYOMING

OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO APPROPRIATE UNDERGROUND WATER

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TFNS 2/025 RECO MAR 04.2019

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	The well is to be constructed on lands owned by
11.	The water is to be used on lands owned by (If landowner is not the applicant, a copy of the agreement relating to usage of appropriated water on the land should be submitted to this office. If the landowner is included as a co-applicant on the application, this procedure need not be fol-
	lowed.)
	(Signed) (Applicant)
	E STATE OF WYOMING
Cot	inty of Sheeidan ss.
	I hereby certify that the foregoing application was signed in my presence and sworn to before me by
	this 15 day of HARCH , 1921
Му	Commission Expires My Commission of 19 19 Allower & Mortage Notary Public
	THIS SECTION IS NOT TO BE FILLED IN BY APPLICANT
тн	E STATE OF WYOMING
	ATE ENGINEER'S OFFICE ss.
51.	
	This instrument was received and filed for record on theday of, A. D.
19_	at o'clock M.
	Sytua 4 Xore
	State Engineer
ing	THIS IS TO CERTIFY that I have examined the foregoing application and do hereby grant the same subject to the follow-limitations and conditions:
gro	This application is approved subject to the condition that the proposed use shall not interfere with any existing rights to and water from the same source of supply and is subject to regulation and correlation with surface water rights, if the and and surface waters are interconnected. The use of water hereunder is subject to the further provisions of Chapter 169, sion Laws of Wyoming, 1957, and any subsequent amendments thereto.
	Granting of a permit does not guarantee the right to have the water level or artesian pressure in the well maintained at specific level. The well should be constructed to a depth adequate to allow for the maximum development and beneficial of ground water in the source of supply.
with	If the well is a flowing artesian well, it shall be so constructed and equipped that the flow may be shut off when not in use, nout loss of water into subsurface formations or at the surface.
-	
_	
	Approval of this application may be considered as authorization to proceed with construction of the proposed well.
thir	Construction of well will begin within one (1) year from date of approval. A Statement of Completion will be filed within ty (30) days of completion of construction, including pump installation.
cati	Completion of construction and completion of the beneficial use of water for the purposes specified in Item 4 of this applion will be made by December 31, 19 23.
of a	The amount of appropriation shall be limited to the quantity to which permittee is entitled as determined at time of proof application of water to beneficial use.
	Witness my hand this 20 th day of March A. D. 1971. Though A. D. 1971. State Engineer
	- # 1 (1 1 h)
OTI	CE OF COMMUNICATION WATURED - Statement of Completion received prior to expiration of time for commencement.
	h 17, 1971 - Statement of Completion on March 9, 1971 received.
ene	ficial use assumed as of date of completion and/or Item 11 of Form U 7.

SCANNED DEC 19 2011

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1849 Terra Avenue • Sheridan, WY 82801 Phone: 307-672-0761 • Fax: 307-674-4265 www.wwcengineering.com

January 23, 2018

Mr. Leroy Taylor HC 31 1703 Highway 345 Ranchester WY, 82839

RE: Potential Well Impact

Dear Mr. Taylor:

As part of the mine permit application for the Brook Mine, the rules and regulations require that the mine evaluates any potential groundwater impacts. This evaluation is presented in Section MP 6 of the Mine Plan for the Application. Section MP6.2.1 of the Brook Mine permit application TFN 6 2/025 states "there are eight wells that have the potential to be impacted by mine activities. Five wells are completed in the Tongue River alluvium. As discussed in Mine Plan Section 25, there is no hydrologic connection between the coal being mined and the Tongue River alluvium in this area. Well P71814 is completed in both the Carney and Masters coal as indicated by the log. The coal to be mined is located higher in elevation and north of an inferred fault. Therefore, there should be no impacts in this well due to mining." Below is a list of the 8 SEO well permits as they are listed in Section MP6.2.1 and highlighted are wells associated with your property. I have also enclosed copies of the SEO permits for your use. On behalf of Brook Mine, I am reaching out to you to obtain the information on water level elevation, available water column data, and GPS location if it is feasible to do so.

- P144442W (Overburden/Alluvial)
- P118684W (Tongue River Alluvial)
- P119576W (Tongue River Alluvial)
- P120822W (Tongue River Alluvial)
- P71814W (Coal)
- P8410W (Interburden)
- P84927W (Tongue River Alluvial)
- P93497W (Tongue River Alluvial)

Please contact me with a time I can collect the necessary information if you so desire. If you do not wish for us to collect this data please provide me a letter that states your desire for the mine not to collect this information.

Sincerely,

Jeff Barron, P.E. Project Engineer

JB/hjr

Attachment: as noted

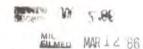
TENS 2/025 REGD MAR 04.2013



FORM L.W. 5 Rev. 5-79 FILING FEE SCHEDULE ON REVERSE SIDE

STATE OF WYOMING

OFFICE OF THE STATE ENGINEER BARRETT BUILDING CHEYENNE, WYOMING 82002



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SEE REVERSE SIDE 71814

Permit No. U.W.____

11. If for irrigation use, describe method of irrigation, i.e. center pivot sprinkler, flood, etc.

Book No. 498 Page No. 42

TFN6 2/025 RECD MAR 04, 2013

pany this application. If the land is privately owned and the owner is not a coapplicant.) 13. The water is to be used on lands owned by Secret Secret. Park (If landowner is not the applicant, a copy of the agreement relating to usage of appropriated water on the land should be submit to this office. If the landowner is included as a co-applicant on the application, this procedure need not be followed.) REMARKS: Under penalties of perjury, I declare that I have examined this application and to the best of my knowledge and belief it is true, or rect and complete. Under penalties of perjury, I declare that I have examined this application and to the best of my knowledge and belief it is true, or signature of Applicant or Authorized Agent THE LEGALLY REQUIRED FILING FEE MUST ACCOMPANY THIS APPLICATION DOMESTIC AND/OR STOCK WATERING USES [Domestic use is defined as a single-family dwelling and the watering of lawns and gardens not exceeding one (1) acre) RERIGATION, MUNICIPAL, INDSTRIAL, MISCELLANEOUS \$25.00 MONITOR (For water level measurements or chemical quality sampling) IF WELL WILL SERVE MULTIPLE USES, SUBMIT ONLY ONE (THE HIGHER) FILING FEE. THIS SECTION IS NOT TO BE FILLED IN BY APPLICANT THE STATE OF WYOMING \$25.01 THE STATE OF WYOMING \$25.02 This instrument was received and filed for record on the 7th day of February A. 9.100. o'clock AM. Permit No. U.W. 71814 This SPICian is approved subject to the condition that the proposed use shall not interfere with any existing rights to ground water from the same source of supply and is subject to regulation and correlation with surface water rights, if the ground and surfaversers are interconnected. The use of water hereunder is subject to the further provisions of Chapter 109, Session Laws of Wyomin 1957, and any subsequent amendments thereto. Granting of a permit does not guarantee the right to have the water level or artesian pressure in the well maintained at any specilered. The well should be constructed to a depth adequate to allow for	12. The well is to be constructed on lands owned by LECO ECSKE RANCH (The granting of a permit does not constitute the granting of right of way. If any easement or right of way is necessary in contion with this application, it should be understood that the responsibility is the applicant's. A copy of the agreement should account to the control of t
(If landowner is not the applicant, a copy of the agreement relating to usage of appropriated water on the land should be submit to this office. If the landowner is included as a co-applicant on the application, this procedure need not be followed.) REMARKS: Under penalties of perjury, I declare that I have examined this application and to the best of my knowledge and belief it is true, or rect and complete. In the LECALLY REQUIRED FILING FEE MUST ACCOMPANY THIS APPLICATION DOMESTIC AND/OR STOCK WATERING USES (Domestic use is defined as a single-family shedling and the watering of lawns and gardens not exceeding one (1) acre) IRRIGATION, MINICIPAL, INDUSTRIAL, MISCELLANEOUS SECOND MONITOR (For water level measurements or chemical quality sampling) IF WELL WILL SERVE MULTIPLE USES, SUBMIT ONLY ONE (THE HIGHER) FILING FEE. THIS SECTION IS NOT TO BE FILLED IN BY APPLICANT THE STATE OF WYOMING STATE ENGINEER'S OFFICE) This instrument was received and filed for record on the. 7th day of February A. Permit No. U.W. 71814 THIS IS TO CERTIFY that I have examined the foregoing application and do hererby grant the same subject to the followil imitations and conditions: This application is approved subject to the condition that the proposed use shall not interfere with any existing rights to grow water from the same source of supply and is subject to regulation and correlation with surface water rights, if the ground and surfawaters are interconnected. The use of water hereunder is subject to the further provisions of Chapter 169, Session Laws of Wyomin 1957, and any subsequent amendments thereto. Granting of a permit does not guarantee the right to have the water level or artesian pressure in the well maintained at any specilevel. The well should be constructed to a depth adequate to allow for the maximum development and hendicial use of ground water here source of supply. Approval of this application may be considered as authorization to proceed with construction of the proposed well. Construction of	pany this application, if the land is privately owned and the owner is not a co-applicant.)
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April 17, 1986 - Notice of Commencment on February 8, 1986 received. April 17, 1986 - Statement of Completion on March 26, 1986 received. Beneficial use assumed as of date of completion.	April 17, 1986 - Statement of Completion on March 26, 1986 received.

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FORM UW 5 Rev. 5.79 FILING FEE SCHEDULE ON REVERSE SIDE

HERSCHLER BUILDING



Industrial Miscellaneous (Describe completely and accurately) RANCH MEAD COLDED Location of the well: (NOTE: Quarter-quarter (40-acre subdivision) MUST be shown. EXAMPLE: SEWANWA of Sec. 12, Township 14 North, Range 68 West.) SHEKLDEN County, NE 4 NW 4 of Sec. 24. T. 57 N. R. 85 W. of the 6th P.M. (or W.R.M.), Wyoming. If located m a platted subdivision, also provide Lot, Block of the	12-2
Name of applicant(s) LEGERSK RANCH Address of applicant(s) CA MALT PICH BOX 6498 SHERIDAN, MYD Zip: Name & address of agent to receive correspondence and notices ABOUE Location of the well: (NOTE: Quarter-quarter (40-acre subdivision) MUST be shown. EXAMPLE: SEANW & of Sec. 12, Township 14 North, Range 68 West.) SHEFIDEN County, NE 1/4 NN 1/4 of Sec. 24 T. 57. N. R. 65. W. of the 6th P.M. (or W.R.M.), Wyoming. If located m a platted subdivision, also provide Lot, Block of the	k. ETED
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Address of applicant(s) Charter Rich Soc 6498 SHECIAN, MyD Zip: Name & address of agent to receive correspondence and notices ASOLE Location of the well: (NOTE: Quarter-quarter (40-acre subdivision) MUST be shown. EXAMPLE: SEVANW's of Sec. 12, Township 14 North, Range 68 West.) SHECIAN County, NE 4 NW 4 of Sec. 24. T 57 N. R. 85 W. of the 6th P.M. (or W.R.M.), Wyoming. If located m a platted subdivision. also provide Lot Subdivision (or Add'n) of the Null irrigation ditches and canals, stream, reservoirs and other wells. Indicate the point of use or lands to be irrigated from other sources. Estimated depth of the well is 10 feet. MAXIMUM quantity of water to be developed and beneficially used: 20 gallons per minute. NOTE: If for domestic or stock use, this application will be processed for a maximum of 25 gallons per minute. SPRINGS: Only springs flowing 25 gallons per minute or less, where the proposed use is domestic or stockwatering, will be considered as ground water appropriations. After approval of this application, some type of artificial diversion must be constructed to qualify for a water right. If use is not irrigation, mark the point(s) or area(s) of use in the tabulation below. If for irrigation use: a Describe MAXIMUM acreage to be irrigated in each 40 acre subdivision in the tabulation below. If for irrigation use: by the subdivision of the subdivision water right(s) under REMARKS. Nowed ingram represents section. Locate well acress mall square represents section. Locate well acress m	672-9
Lec to which the water will be applied: Domestic Stock Watering Irrigation Mulndustrial Miscellaneous (Describe completely and accurately) RANCH HEAD CALIAGE Location of the well: (NOTE: Quarter-quarter (40-acre subdivision) MUST be shown. EXAMPLE: SEVANWV of Sec. 12, Township 14 North, Range 68 West.) SHEADAR County, NE V NW 4 of Sec. 24. 5T. N. R. AS 5. W. of the oth P.M. (or W.R.M.), Wyoning. If located in a platted subdivision, also provide Lot Block of the Subdivision (or Add'n) of Mark the well location on the section grid to the right. LOCATION SHOWN IN ITEM 5 MUST AGREE WITHGRID. If the proposed well is for irrigation use, sketch and label all irrigation ditches and canals, stream, reservoirs and other wells. Indicate the point of use or lands to be irrigated from other sources. Estimated depth of the well is 10 feet. MAXIMUM quantity of water to be developed and beneficially used: 20 gallons per minute. NOTE: If for domestic or stock use, this application will be processed for a maximum of 25 gallons per minute. SPRINGS: Only springs flowing 25 gallons per minute or less, where the proposed use is domestic or stockwatering, will be considered as ground water appropriations. After approval of this application, some type of artificial diversion must be constructed to qualify for a water right. It use is not irrigation, mark the point(s) or area(s) of use in the tabulation below. If for irrigation use: Describe MAXIMUM acreage to be irrigated in each 40 acre subdivision in the tabulation below. If and will be irrigated from existing water right(s) with water from this well to be additional supply. Describe exight(s) under REMARKS. NOWE SW4 SW4 SE4 NEW NEW SW4 SE4 NEW	
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	TOTALS
POINT OF USE	

SEE REVERSE SIDE

84927

Permit No. U.W ._

630

Book No.____

	The well is to be constructed on lands owned by LEGE (The granting of a permit does not constitute the granting of rigition with this application, it should be understood that the responsible that the responsibility of the land is privately owned and the construction of the land is privately owned and the construction.	ght of way. If any ea onsibility is the appl	sement or cant's. A c		
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ect	Under penalties of perjury, I declare that I have examined this a and complete.	pplication and to the	best of my	knowledge and	belief it is true, co
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	Signature of Applicant occutationized Agent		Date	10	. 19_1
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19_	91 , at 11:00 o'clock A.M.	day o			a. i
Peri	mit No. U.W. 84927	sesc f	1		
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limi	THIS IS TO CERTIFY that I have examined the foregoing a stations and conditions:	pplication and do n	ereby gran	t the same subj	ect to the following
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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. 	A. Signature X. M. P. D. Tayl B. Received by (Printed Name) LERoy P. Taylor	C. Date of Delivery
1. Article Addressed to: LERDY TAYLOR TAYLOR IN VESTMENTS LLC HC31 1703 Hwy 345 Ranchester, Wy 82839	D. Is delivery address different from If YES, enter delivery address to the second secon	item 1? Yes
9590 9402 4550 8278 8532 49	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery Collect on Delivery	☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise
2_Article Number (Transfer from service label) 7018 3090 0001 11557 日300 1	Collect on Delivery Restricted Delivery nsured Mail Restricted Delivery over \$500)	☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053		omestic Return Receipt

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1849 Terra Avenue • Sheridan, WY 82801 Phone: 307-672-0761 • Fax: 307-674-4265 www.wwcengineering.com

January 23, 2018

Mr. Leroy Taylor HC 31 1703 Highway 345 Ranchester WY, 82839

RE: Potential Well Impact

Dear Mr. Taylor:

As part of the mine permit application for the Brook Mine, the rules and regulations require that the mine evaluates any potential groundwater impacts. This evaluation is presented in Section MP 6 of the Mine Plan for the Application. Section MP6.2.1 of the Brook Mine permit application TFN 6 2/025 states "there are eight wells that have the potential to be impacted by mine activities. Five wells are completed in the Tongue River alluvium. As discussed in Mine Plan Section 25, there is no hydrologic connection between the coal being mined and the Tongue River alluvium in this area. Well P71814 is completed in both the Carney and Masters coal as indicated by the log. The coal to be mined is located higher in elevation and north of an inferred fault. Therefore, there should be no impacts in this well due to mining." Below is a list of the 8 SEO well permits as they are listed in Section MP6.2.1 and highlighted are wells associated with your property. I have also enclosed copies of the SEO permits for your use. On behalf of Brook Mine, I am reaching out to you to obtain the information on water level elevation, available water column data, and GPS location if it is feasible to do so.

- P144442W (Overburden/Alluvial)
- P118684W (Tongue River Alluvial)
- P119576W (Tongue River Alluvial)
- P120822W (Tongue River Alluvial)
- P71814W (Coal)
- P8410W (Interburden)
- P84927W (Tongue River Alluvial)
- P93497W (Tongue River Alluvial)

Please contact me with a time I can collect the necessary information if you so desire. If you do not wish for us to collect this data please provide me a letter that states your desire for the mine not to collect this information.

Sincerely,

Jeff Barron, P.E. Project Engineer

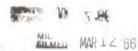
JB/hjr

Attachment: as noted

TFNS 2/025 RECO MAR 04,2013 Scanne Q. SI 四マンマのマの

FORM L.W. 5 Rev. 5-79 FILING FEE SCHEDULE ON REVERSE SIDE

BARRETT BUILDING CHEYENNE, WYOMING 82002



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71814

Permit No. U.W.___

SEE REVERSE SIDE

Book No. 498 Page No. 42

12. The well is to be constructed on lands owned by Forest Price (The granting of a permit does not constitute the granting of right of way. If any easement or right of way is a tion with this application, it should be understood that the responsibility is the applicant's. A copy of the agree	
pany this application, if the land is privately owned and the owner is not a co-applicant.)	
13. The water is to be used on lands owned by Cloud S.K. Rouch (If landowner is not the applicant, a copy of the agreement relating to usage of appropriated water on the land to this office. If the landowner is included as a co-applicant on the application, this procedure need not like the landowner is included as a co-applicant on the application.	
REMARKS:	
Under penalties of perjury, I declare that I have examined this application and to the best of my knowledge and rect and complete. Signature of Applicant or Authorized Agent Date	belief it is true, cor-
	ON
THE LEGALLY REQUIRED FILING FEE MUST ACCOMPANY THIS APPLICATION	ON
DOMESTIC AND/OR STOCK WATERING USES (Domestic use is defined as a single-family dwelling and the watering of lawns and gardens not exceeding one (1) acre) \$10.00	
IRRIGATION, MUNICIPAL, INDUSTRIAL, MISCELLANEOUS \$25.00	
MONITOR (For water level measurements or chemical quality sampling) NO FEE IF WELL WILL SERVE MULTIPLE USES, SUBMIT ONLY ONE (THE HIGHER) FILING FEE.	
THIS SECTION IS NOT TO BE FILLED IN BY APPLICANT	
THE STATE OF WYOMING)) ss.	
STATE ENGINEER'S OFFICE) This instrument was received and filed for record on the 7th day of February	, A. D.
19.86 , at 9:00 o'clock AM. Permit No. U.W. 71814	
for State Engineer	
THIS IS TO CERTIFY that I have examined the foregoing application and do hereby grant the same subj limitations and conditions:	ect to the following
This application is approved subject to the condition that the proposed use shall not interfere with any exists water from the same source of supply and is subject to regulation and correlation with surface water rights, if the waters are interconnected. The use of water hereunder is subject to the further provisions of Chapter 169, Session 1957, and any subsequent amendments thereto.	ground and surface
Granting of a permit does not guarantee the right to have the water level or artesian pressure in the well maint level. The well should be constructed to a depth adequate to allow for the maximum development and beneficial us the source of supply.	
If the well is a flowing artesian well, it shall be so constructed and equipped that the flow may be shut off when loss of water into surface formations or at the surface.	a not in use, without
Approval of this application may be considered as authorization to proceed with construction of the pro-	posed well.
Construction of well will begin within one (1) year from date of approval. A Statement of Completion will be (30) days of completion of construction, including pump installation.	
Completion of construction and completion of the beneficial use of water for the purposes specified in Item will be made by December 31, 19	4 of this application
The amount of appropriation shall be limited to the quantity to which permittee is entitled as determined application of water to beneficial uses	at time of proof of
Witness my hand this day of A.D. 19	
Jack of the	ask
State Engineer	
fo-	
April 17, 1986 - Notice of Commencment on February 8, 1986 received. April 17, 1986 - Statement of Completion on March 26, 1986 received. Beneficial use assumed as of date of completion.	0.00
BECKU.	NL > 186

577 フロフロ

FILING FEE SCHEDULE

FORM U.W. 5

ON REVERSE SIDE

Rev. 5.79

STATE OF WYOMING OFFICE OF THE STATE ENGINEER

HERSCHLER BUILDING CHEYENNE, WYOMING 82002



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	ol fabel e poin										dother	wells	Indic	ate	~_		-	1	
	timate															sv	· .		- SE 1/4
. M	AXIM	UM	quan	tity	of	water	to	be	deve		and								
											omesti				L		•		- 1
											s, when							S	
Al	iter ap	prova	of th	is ap	plicati	on, so					version								1 mile
	ructed						WA .		la (a)	nee in	the tal	er lasi	on kale	in.	вес	tion.	Loca	te well	sccurately in enting 40 sc.
). If	for irr Desc 1 1	ribe Mand Land Land	n use:	MUM ne irri	acrea gated from	ge to l from t existin	oe irri	gated ell on	in each	h 40	acre su	bdivi	sion in	the t	abula	tion b	elow.		be existing water
nwn-				N	3/4.			N	W 1/4			SW	1/4			S	E¼		
ship	Range	Sec	NE%	NW G	SW	SEW	NE%	NW%	SW4	SE/4	NE44	NW%	SW%	SE%	NEW	NW4	SW4	SE/4	TOTALS
57	85	24					X												
							-	Por	II	OF	USE						-		
	-					-										-	-		
		1					1												

SEE REVERSE SIDE

11. If for irrigation use, describe method of irrigation, i.e. center pivot sprinkler, flood, etc. _

84927

Permit No. U.W ..

630

Book No ._

2. The well is to be constructed on lands owned by LEGER	SKL RANCH		
(The granting of a permit does not constitute the granting of right tion with this application, it should be understood that the respons pany this application, if the land is privately owned and the ow	sibility is the applicant's. A cop	ght of way is necessa by of the agreement s	ry in connec- hould accom-
3. The water is to be used on lands owned by LEGER	KE RANCH		
(If landowner is not the applicant, a copy of the agreement relating to this office. If the landowner is included as a co-applicant on	g to usage of appropriated wate the application, this procedu	er on the land should re need not be follo	be submitted wed.)
REMARKS:			
Under penalties of perjury, I declare that I have examined this applet and complete.	ication and to the best of my k	nowledge and belief i	t is true, cor-
Signature of Applicant Separathorized Agent	apul	18	1991
THE LEGALLY REQUIRED FILING FEE MU	ST ACCOMPANY THIS A	APPLICATION	
OMESTIC AND/OR STOCK WATERING USES (Domestic use is defined as a single-family dwelling and the wat	ering of lawns and	\$10.00	
gardens not exceeding one (1) acre) RIGATION, MUNICIPAL, INDUSTRIAL, MISCELLANEOUS		\$25.00	
ONITOR (For water level measurements or chemical quality samp	ling)	NO FEE	
IF WELL WILL SERVE MULTIPLE USES, SUBMIT ONLY ONE	(THE HIGHER) FILING FE	EE.	
THIS SECTION IS NOT TO BE F	ILLED IN BY APPLICAN	T	
HE STATE OF WYOMING)			
) ss.			
'ATE ENGINEER'S OFFICE) This instrument was received and filed for record on the	22nd day of Apr	i1	, A. D
91 , at 11:00 o'clock A M.			
ermit No. U.W. 84927	TOT State Er		-
THIS IS TO CERTIFY that I have examined the foregoing applinitations and conditions:	/ / / -		he following
This application is approved subject to the condition that the propater from the same source of supply and is subject to regulation and aters are interconnected. The use of water hereunder is subject to the 257, and any subsequent amendments thereto.	correlation with surface water	rights, if the ground	and surface
Granting of a permit does not guarantee the right to have the water wel. The well should be constructed to a depth adequate to allow for the source of supply.			
If the well is a flowing artesian well, it shall be so constructed and ass of water into surface formations or at the surface.	equipped that the flow may be	shut off when not in	use, withou
Approval of this application may be considered as authorization	to proceed with construction	n of the proposed w	ell.
Construction of well will begin within one (1) year from date of a days of completion of construction, including pump installation		pletion will be filed	within thirty
Completion of construction and completion of the beneficial use ll be made by December 31, 19			
The amount of appropriation shall be limited to the quantity to plication of water to beneficial use.	which permittee is entitled a	as determined at tim	e of proof o
Witness my hand thisday of	, A.D. 19	1	
X	hal of	Harle	14
7,	State	Engineer	
0/- 1001 W	10-		
06, 1991 - Notice of Commencement on April 27, 06, 1991 - Statement of Completion on April 30 assumed as of date of completion.	1991 réceived.), 1991 received. Be	eneficial Use SCANNED	MAY 15

	201	13 Water	Elevation	ons	20	014 Wat	er Elevat	ions	20	15 Wate	r Elevati	ons	20	16 Wate	er Elevation	ons	20	18 Wate	r Elevation	ons	20	19 Wate	r Elevation	ons		2013 Sar	mpling			2014 sa	amplin
Well Name	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q
578511-CRN			X	X	X	X								-			Х				7 - 1	1	- 1			-	X	X	X	X	
578511-MST			Х	X	X	X						-	1				Х						-	11 14			X	X			U.
578513-MST			X	Х	Х	X											X										X	X	Х	X	
578512-AL			Х	X	Х	X	X	X					Х	X			Х			()							X	Х	Х	XX	X
578513-AL		-	Х	X	X	X	X	X			-		X	X			Х						-				X	Х	X	XX	X
578418-AL	14		X	X	X	X	X	X			(X	X			Х			4							X	X			
578417-CRN	-		Х	Х	X	X										- 4	Х					1					X	Х	Х	X	
578408-MST			X	X	X	X											Х						4				X	Х	Х	X	
578408-CRN	1		Х	Х	X	X											Х										X	Х	X	X	
578409-MST			Х	X	X	X								4			7			15							X	Х	Х	X	
578409-CRN-OB			Х	X	X	X																					X	Х	Х	X	
578409-UBN			X	X	X	X																						Х	Х	X	
578415-MST-CRN			X	X	X	X																					X	X	X	X	
578409-CRN			X	X	X	X																									
578409-CKN 578409-MST-OB			X	X	X	X																				1					
578417-MST			X	X	X	X	1	1	1								X												-		
578418-CRN			X	X	X	X	1				-		10000				X		-							+ +		_			
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578512-CRN				_	_	-	+	+	-	-		-	_	-											-	1	-				-
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578512-MST	-		X	X	X	X	1	-	-					-			X								-	-	-				-
578513-CRN			Х	X	X	X	-	-	-	.,				-		-	X								-	-	-				-
578421-2-CRN-MAS	-			-		-	-	-		X	X	X	X			-									-		-				-
578421-2-MON						-	-	1	-	X	X	X	X												-	-	_				-
578421-3-CRN-MAS						-	-		-	X	X	X	X																		-
578421-CRN-MAS						-	-	-	-	X	X	X	X													-				-	-
578421-MON					-	-	-	-		X	X	X	X		-										-	-					-
578428-CRN-MAS										X	Х	X	X				-											_			-
578428-MON						1				X	X	X	X												-		_				
578434-CRN-MAS										X	X	X	X																		-
578434-D3					1					X	X	X	X																		1
578434-MON										X	X	X	X					7													
578435-CRN-MAS										X	X	X	X																		
578435-D1					1					X	X	X	X																		
578435-D2										X	X	X	Х																		
578435-D3						1				Х	X	X	X				-														
578435-MON					1					X	Х	X	Х			11 1	-								1		- 1		T.55		
578435-ROLAND			_= ==1							Х	Х	X	Х																		
578435-SMITH										X	Х	X	Х											1							
578433-AL-1											X	X	X	X			X													1	
578434-AL-1										1 = 1	X	Х	X	X		.==1	Х														
578434-AL-2											X	X	X	X			X														
578524-AL-1								1									Х	X	X												
578415-SPL-1																		X	Х	X	Х										
578415-SPL-2	7																	X	Х	Х	Х							1			
578420-AL-1																		Х	Х	Х	X										-
578524-CRN-PUMP-1										1								X		X											
578420-CRN-PUMP-1																			X	X	X										
578513-OVB-1									1				-0.0						X	X	X				1						
578513-5																															
R13-019																															
ed. N3MN33/2N2N																									1						1

		2015 c	ampling				ampling				ampling				Core L	,			Permeabili
Well Name	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Slug out test	pump test	Cores
578511-CRN	Q1	QZ	Q3	Q4	QI	Q2	Q3	4	Qı	Q2	Q3	Q	Q1	Q2	QJ	QT	3/14/18	pump test	Cores
578511-MST							-										3/14/18		
578513-MST																	3/12/18		
578513-M31	_				Х	X											3/12/18		
578512-AL	+				X	X											3/13/18		
578418-AL	+				^	^											3/13/18		
578417-CRN						1											3/7/18		
578408-MST																	3/9/18		
578408-CRN																	3/9/18		
578409-MST																	3/3/10	11/12/13	
578409-CRN-OB																		11/14/13	
578409-UBN																		11/14/15	
578415-MST-CRN																			
578409-CRN																		11/14/13	
578409-MST-OB																		11/12/13	
578417-MST																	5/7/18	11/12/13	
578418-CRN																	3/9/18		
578418-MST	-																3/3/10		
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578512-CNN 578512-MST																_	3/12/18		
578513-CRN	_		-			-										-	3/12/10		
578421-2-CRN-MAS	-	X	X	X	х														
578421-2-MON			X	^	^	-	-					_							
578421-3-CRN-MAS		v	_	v	v	-				-		-		-		-	6/6/10		
578421-CRN-MAS		X	X	X	X	-											6/6/18		
578421-CNN-IVIAS	-	X	^			-										-			
578428-CRN-MAS	+	X	V	X	X	-	_	_											
578428-MON	+	X	X	X		-													
578434-CRN-MAS	_	X	^	^	X	-													
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578435-D2		X	X	X	X	-													
578435-D3 578435-MON		X	X	X	X	-		-				-		_					
578435-MON 578435-ROLAND		X	X	X	X					-									
578435-SMITH	-	X	X	X	X					-					-				
578433-AL-1		X	X	X	X	V											2/15/10		
578433-AL-1 578434-AL-1			X	X	X	X											3/15/18 3/15/18		
			X	X	X	X				_									
578434-AL-2			X	Х	Х	Х			v	VV	v	v					4/19/18	6/7/10	
578524-AL-1 578415-SPL-1	-				-			-	Х	XX	X	X	V				F /21 /10	6/7/18	
										X	X	X	X				5/31/18		
578415-SPL-2						-	-	-	-	X	X	X	X	-			7/2/10	6/21/10	
578420-AL-1				-		-	-			X	Х	Х	Х	-			7/3/18	6/21/18	
578524-CRN-PUMP-1	-					-				X	W	v	v					6/7/18	
578420-CRN-PUMP-1	-							-		X	XX	X	X					6/21/18	
578513-OVB-1 578513-5											Х	X	X						11/2/
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